CATALOGUE
OF THE
BUPRESTIDAE
OF
NORTH AMERICA
NORTH OF MEXICO

BY
W. J. CHAMBERLIN

1926

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THE BUPRESTIDAE OF NORTH AMERICA

Exclusive of Mexico

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A CATALOGUE

Including Synonomy, Bibliography, Distribution, Type Locality and Hosts of Each Species

BY
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To
My Mother
Whose loving sacrifice and
constant encouragement has
ever been an inspiration.

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by
W. J. Chamberlin
Corvallis, Oregon

FOREWORD

The first requirement in undertaking any problem in Entomology, be it of a systematic or an economic nature, is a comprehensive knowledge of the literature on the subject. The working up of a more or less complete bibliography, is then, one of the first essentials and is often a task requiring considerable time, especially for workers who have only limited library facilities.

Some years ago, the author became interested in the family Buprestiade and began keeping a card index to all articles and notes concerning species of this family. In the course of a few years the card catalogue assumed such proportion that it was put into manuscript form and an attempt was made to make it as complete as possible from the library facilities at hand and by borrowing such books as possible from other libraries. This task was completed early in 1917. Upon receiving a discharge from the army in New York in 1919, the opportunity presented itself for further work in the large libraries of the East. Through the hearty co-operation of the authorities of the American Museum of Natural History, New York; Philadelphia Academy of Science, Philadelphia; and the United States National Museum at Washington, it was possible to examine the large amount of literature which has made this catalogue fairly complete.

It has been the aim to include every reference in American and foreign literature which mentions any species* of Buprestidae found in the United States, Canada or Lower (Baja) California, to give the type locality as near as possible, to indicate the distribution and follow this out with exact records of capture and to list the known host plants.

It is hoped that the present paper will lighten the task of those working with this family and may lead some one who has access to the large collections and types of the East to revise some of the genera which are so badly in need of revision.

**Complete bibliography of introduced species is not given.*

PREFACE

The following catalogue is intended to include all names which have been proposed for species belonging to the family Buprestidae occurring in the United States and adjacent territory, including all the species known to occur in Canada and Lower (Baja) California. All articles and notes referring to such species have been included if seen.

The Genera are listed alphabetically and the type of each genus given. The species are listed alphabetically under their respective genera. Following the specific names the literature is cited chronologically, the synonyms being inserted in italics at their proper dates.

In order to obtain the correct reference to any particular article it is merely necessary to note the date, author and page of the reference as given under the species. (Example: Under *Acmaeodera acuta*, 1900 Griffith p. 568) and use this in conjunction with the list of authors and titles on page 245. Under Griffith we note, 1900 Ent. News vol. XI, "Coleopterous Fauna of Phoenix, Arizona and surrounding Region" pp. 561-568. In this article on p. 568 *A. acuta* will be mentioned. In cases where an author has two or more articles, dealing with Buprestidae, published during the same year, the correct article for a particular reference can be selected by the pagination. If an author has more than one article in the same year, with the same pagination, a small letter has been added to the date to prevent confusion in selecting the article desired.

Following the bibliography, the type locality of the species is given as near as possible and the geopraphical distribution set forth. Besides the general distribution a number of records of capture are given to indicate exact localities and dates of capture. The numbers in parentheses following these dates indicate the authority for, or the collection in which the species was seen.*

The type locality of species, here given, has been taken from literature and in many cases is very unsatisfactory. Among those species described by early European and American authors, we find such localities as the following given: "Bor. Amer.", "Arkansas River", "Louisiana Territory", "W. T." and "H. B.", "Cal." and "Texas". Such statements are of little value, and in many cases there seems to be no additional data regarding these indefinite localities, while in a few other cases it has been possible to trace the origin of the material to more definite localities. The authors in many cases were not responsible for the indefinite nature of the locality set forth since the material has been submitted to them bearing indefinite locality, and no amount of inquiry served to bring out the exact place of capture.

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*See page 9.

In presenting the distribution and hosts of the various species, the author has obtained the data from publications, from the examination of a number of the finest public and private collections in this country, from correspondence and from personal collecting and rearing of species. Where species have been reported far out of their regular range, special inquiry has been made regarding the authenticity and in presenting the data, the authority is given in order that other workers may be able to establish the status of the case for themselves. Some rather disconcerting information in regard to distribution has appeared in the search, such as *Chalcophora angulicollis* from Ontario (14); *Buprestis confluens* from Florida (9) and *Dicereo lurida* from Oregon (C). Yet there seems to be no doubt regarding the identity of the specimens and the capture seems to be founded on good authority, so the records are included.

It cannot be hoped that the present paper is without omission or error and the author will appreciate receiving any additional data regarding hosts, unusual distribution, omissions or error in regard to the literature. The work has been brought up to January, 1925, and the more important papers of 1925 have been included.

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The author wishes to express his thanks to the following gentlemen who at various times allowed him to examine their excellent collections, compare specimens and obtain data as to distribution and records of capture:

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W. J. CHAMBERLIN,

Corvallis, Oregon, April, 1926.

*INDEX TO NUMBERS FOLLOWING RECORDS OF CAPTURE

(1) Collection of Mr. Howard Notman, Brooklyn, N. Y. (Byers Collection).
(2) Collection of Mr. Charles Liebeck, Philadelphia, Pa.
(3) Collection of Mr. H. G. Klages, Pittsburg, Pa.
(4) Collection of Mr. Chas. W. Leng, Stanton Island, N. Y.
(5) Records from Articles of Prof. H. C. Fall.
(6) Prof. F. H. Snow. (Specimens in various collections and cited by various authors.)
(7) The Dagget Collection, Los Angeles, California.
(8) Collection of Mr. Henry W. Wenzel, Philadelphia, Pa.
(9) Collection of Mr. Frank R. Mason, Germantown, Philadelphia.
(10) U. S. National Museum Collection and the collection of the Forestry Division of the Bureau of Entomology.
(11(Collection of Mr. Chas. Dury, Cincinnati, Ohio.
(12) Collection of Colonel T. L. Casey, Washington, D. C.
(13) Collection of Dr. A. Fenyes, Pasadena, California.
(14) Mr. C. A. Frost, Framingham, Mass. (Mostly from correspondence.)
(15) Collection, Articles and Correspondence of Dr. E. C. VanDyke, Berkeley, California.
(16) Collection of Mr. Chas. Schaffer, and that of the Brooklyn Museum of Arts and Sciences, Brooklyn, N. Y.
(17) Collection of the Philadelphia Academy of Science.
(18) Collection of the American Museum of Natural History, New York City.
(19) Collection and Articles of Mr. Alan S. Nicolay, Upper Montclair, New Jersey.
(20) J. N. Knull in literature and from correspondence.
(21) Collection of Mr. W. T. Davis, Stanton Island, N. Y.
(22) Collection and writings of Prof. H. F. Wickham, Iowa City, Iowa..
(23) Dr. H. E. Burke, Writings of
(24) Writings of Prof. T. D. A. Cockerell.
(25) Collection of Pacific Coast Forest Insect Laboratory, Ashland, Oregon.
(O) Collection of Oregon Agricultural College Experiment Station, Corvallis, Oregon.
(C) Collection of the author, W. J. Chamberlin, Corvallis, Oregon.

*See remarks under Preface, page 6.

Genus *ACMAEODERA* Esch

1829 Eschscholtz p. 8 (Original work p. 9.)
Type of the genus. A. GIBBOSA.

1. ACTUA Lec. (9254)

1859 *Retifera* Leconte p. 227.
1859 Leconte p. 224.
1859 *Retifera* Leconte p. 72.
1878 Horn p. 13 pl. 1, fig. 14.
1892 Kerremans p. 166.
1899 Fall p. 20.
1900 Griffith p. 568.
1901 Fall p. 119.
1902 Kerremans p. 33.
1906 Kerremans p. 135 pl. 13, fig 3.
1913 Woodworth p. 194.
1917 Chamberlin p. 167.

Type locality: Ft. Tejon, California.
Distribution: Arizona, California, Utah, Washington and Lower California.
Arizona: Prescott (4);
California: Los Angeles Co. (1); Yosemite (10); Pasadena IV-13 (4); Yreka (4); Kaweh (7); Tulare (16); San Diego (5); Ahwahnee V (13); Sierra Madra VI-VII (13); Independence (13); Monterey (13); Mojave V (13); Upland (13); Mariposa Co. VI-4 (C).
Washington: Spokane (4).
Hosts: Adult feeds on Primrose.

2. ALACRIS Horn (9213)

1878 Horn p. 25 pl. 1 fig. 40.
1892 Kerremans p. 166.
1899 Fall p. 37.
1901 Fall p. 120.
1902 Kerremans p. 33.
1906 Kerremans p. 145.
1913 Woodworth p. 194.

Type locality: Fort Yuma, California.
Distribution: California and Arizona.
Ft. Yuma, Cal.: Jerome, Ariz., Aug. (13).

3. ALICIA Fall (9270)

1899 Fall p. 29.
1901 Fall p. 120.
1902 Kerremans p. 33.
1906 Kerremans p. 172.
1913 Woodworth p. 194.
1926 Mason p. 85.

Type locality: Los Angeles Co., California.
Distribution: California, Arizona, Texas.
Arizona: Bill Wms. Fork, Aug. (2); Phoenix (18) Coyote Mts. 3500 ft. VIII-(18); Santa Cruz Valley, Cobolbi Mts. 3100 ft. VIII-10 (18); Tucson VIII-15 (C); Mesa VIII-5.
California: Los Angeles Co. (5)-(10).
Texas: Chisos Mts. VIII-1 (8); Davis Mts. VII-7 (8).

4. AMABILIS Horn (9227)

1878 Horn p. 7 pl. 1 fig. 3.
1892 Kerremans p. 166.
1898 Cockerell p. 152.
1899 Fall p. 10.
1902 Kerremans p. 33.
1906 Kerremans p. 78.
1907 Fall-Cockerell p. 180.
1917 Burke p. 329.

Type locality: Arizona.
Distribution: Arizona and New Mexico.
Arizona: Palmarlee IV-VIII (16); Cochire Co. VIII (2); Oak Creek Can. 6000 ft. Aug. (C); Huachuca Mts. VIII-IX (1).
New Mexico: Ft. Wingate VIII; Magdalena Mts. (C).
Host: *Alnus tenuifolia.*
Season: Aug.-Sept. (Ariz.) July 2.

5. AMPLICOLLIS Lec. (9224)

1866 Leconte p. 383.
1878 Horn p. 6 pl. 1 fig. 1.
1886 Leconte p. 348.
1889 Waterhouse p. 178.
1892 Kerremans p. 166.
1894 Horn p. 272-273.
1898 Cockerell p. 152.
1898 Wickham p. 305.
1899 Fall p. 9.
1902 Kerremans p. 28.
1906 Kerremans p. 74 pl. 11 fig. 8.
1907-Fall-Cockerell p. 180.

Type locality: Fort Whipple (Phoenix), Arizona.
Distribution: Arizona, New Mexico, and California.
California: Placerville (10); Los Angeles (10).
Arizona: Prescott (C); Nogales VII-30 (C); Phoenix; Tucson Mts.; Huachuca Mts. VII-8-23 (1); Ft. Huachuca VII-4, VIII-25 (13); Patagonia Mts. V (4); Santa Rita Mts.; Santa Catalina Mts. VII; Santino Basin VII-10 (18); Oak Creek Can. VIII 6500 ft. (C).
New Mexico: Albuquerque; Water Canyon 5000 ft. VIII (10).
Hosts: On *Aretostoph viscida* and *Ceanothus intergerimunus* and *C. cuneatus.*
Season: June-August.

6. ANGELICA Fall (9240)

1899 Fall p. 16.
1901 Fall p. 120.
1902 Kerremans p. 33.
1906 Kerremans p. 96 pl. 12, fig. 3.
1913 Woodworth p. 194.
1917 Burke p. 329.
1917 Chamberlin p. 166.

Type locality: Los Angeles Co., California.
Distribution: California.
California: Lake, Eldorado, Mariposa, Los Angeles and Placer Counties. Sierra Madra (13); Ahwahnee V (13); (Cotype), Chileo, S. Madras Mts. VII-20 (7); Mt. Wilson VI-12 (16); Pasadena VI-10

(C); San Gabriel Mts. VI (4).

Hosts: Larva mine the wood of Douglas Oak *(Quercus douglasii)*, Poison oak *(Toxicodendron diversifolia)*, deer brush *(Ceanothus integerriums)*, buck brush *(C. cuneatus)* and Yerba Santa *(Erydectlon sp.)*.

ARIZONAE Horn. See PULCHELLA Herbst

7. AURITINCTA Fall

1922 Fall p. 88.

Type locality: "Kent, Culberson Co.," Texas, Sept. 17, 1912, 3900-4200 fet.

NOTE—Known only by the type collected by Rhen & Hebbard.

8. AURORA Fall

1922 Fall p. 88.

Type locality: Jacumba, San Diego Co., California.

BIEDERMANNI Skinner (9284), See PUBIVENTRIS Horn

9. BISHOPIANA Fall (9252)

1907 Fall p. 240.
1913 Woodworth p. 195.

Type locality: Bishop, California.

Distribution: So. California; Big Pine and Independence, Inyo Co., June (13); Palm Springs, Cal. VI (13).

Hosts:: Unknown.

10. BIVULNERA Horn (9279)

1894 Horn p. 328, 371.
1899 Fall, p. 32.
1902 Kerremans p. 33.
1906 Kerremans p. 187 pl. 14 fig. 4.
1907 Fall p. 240.

Type locality: Tucson, Arizona.

Distribution: Arizona and Lower California.

Arizona: Santa Cruz Village, Cobabi Mts. 3100 ft. VIII-10 (18); Tucson VII-13 (C); S. B. Ranch, Cochise Co. 3700 ft. VIII-10;

Lower California: San Felipe (9).

Hosts: Not known.

11. BODWITCHI Fall (9523)

1901 Fall p. 307.
1906 Kerremans p. 134 pl. 13 fig. 2.
1913 Woodworth p. 195.

Type locality: Prescott, Arizona.

Distribution: Arizona, Southern California and Texas.

Arizona: Yavapai Co. V, VII; Chiricahis Mts. VIII (10); Prescott VI (13), VII, IX (C); Phoenix (Cotype Prescott VII)10).
Texas: Flatonia VII-30 (8).
Hosts: Arizona oak *(Quercus Arizonica).*

NOTE—*A bowditchi* is considered by some to be a synonym of *A. pubiventris*, at present I believe it is distinct.

12. CLAUSA Horn (9230)

1894 Horn p. 328, 374 pl. 7 fig. 3.
1899 Fall p. 11.
1902 Kerremans p. 33.
1906 Kerremans p. 82.

Type locality: Santa Rosa, Lower California.
Distribution: Lower California, San Jose del Cabo, Coral de Piedra, Sierra El Tasta and Santa Rosa (C).
Hosts: Unknown.

13. COMATA Lec. (9214)

1859 Leconte p. 70.
1859 Leconte p. 225 pl. 11 fig. 5.
1871 Saunders p. 79.
1873 Crotch p. 90.
1878 Horn p. 24 pl. 1 fig. 39.
1892 Kerremans p. 168.
1899 Fall p. 37.
1901 Fall p. 307.
1902 Kerremans p. 33.
1906 Kerremans p. 21.
1913 Woodworth p. 195.

Type locality: Fort Yuma, California (Near Gila).
Distribution: Arizona, California and Colorado.
Arizona: Phoenix (1).
California: Ft. Yuma (Lec.).
Colorado: (Saunders).

14. CONFUSA Fisher

1925 Fisher p. 41.
1899 *Pulcherrima*, Fall p. 16.

Type locality: Matacumba Key, Florida.

15. CONNEXA Lec. (9255)

1859 Leconte p. 71.
1859 Leconte p. 223.
1866 Leconte p. 384.
1878 Horn p. 13 pl 1 fig. 13.
1878 *Connexa, acuta, rectifera,* Glover plate XX fig. 5.
1891 Duges p. 13.
1892 Kerremans p. 168.
1895 Fall p. 98.
1897 Fall p. 237.
1899 Fall p. 22.
1901 Fall p. 119.
1902 Kerremans p. 29.
1906 Kerremans p. 138, pl. 13.
1913 Woodworth p. 195.
1917 Chamberlin p. 167.
1917 Burke p. 329.
1924 Chamberlin p. 193.

Type locality: Ft. Tejon, California.
Distribution: Oregon, California, Colorado, Utah, Texas, Arizona and New Mexico.
Oregon: Corvallis VI-12 (C); Rogue River 2000 ft. VII-18 (9); Ashland VIII-6 (Sergent); Klamath Falls (Common) (C).
California: Marin Co. (16); Kern Co. (10); Los Angeles Co. (10); Lake Co. (2); Del Norte Co. (18) Mariposa VI (10); Tuolumne Co. VI (10); Yosemite VII (13); Mariposa VI-14 (C); Tulare (16); Sierra Madre 5000 ft. VI (13); Mt. Lowe (13); Tellac (13); Napa Co. V, VI (18); Kern River 5000 ft. VII-3 (7); Mill Valley V, VI (4); Mt. Wilson (4); Yreka (4).
Colorado: Camp Baldy VI-22.
New Mexico: (1).
Texas: New Brunsfel (8); Round Mt. (8).
Utah: Silver Lake VII-2 (8).
Hosts: Adults taken feeding on Primrose. Said to breed in pine. Bred from live oak *(Quercus wislizenii)*.

16. CONOIDEA Fall (9285)

1899 Fall p. 31.
1902 Kerremans p. 33.
1906 Kerremans p. 195.
1918 Burke p. 211.

Type locality: Arizona.
Distribution: Colorado, Arizona, Texas.
Colorado: (4).
Arizona: Coyote Mts. VIII (C); Kitt's Peak VIII-7 (C); Huachuca Mts. (1); Oak Cr. Can. 6000 ft. VII (4); Tucson (4); Prescott (4).
Texas: El Paso (4).
Hosts: Mines stalks of Spanish dagger *(Dasylerion Wheeleri)*.

17. CONSORS Horn (9273)

1878 Horn p. 20 pl. 1 fig. 30.
1892 Kerremans p. 168.
1894 Horn p. 375.
1899 Fall p. 29.
1902 Kerremans p. 34.
1906 Kerremans p. 179.
1919 Van Dyke p. 155.

Type locality: Texas.
Distribution: Texas, Arizona: Pinal Mts. (16).
Hosts: Unknown.

CONTIGUA Kerr., See FLAVOMARGINATA Gray

18. CONVICTA Fall (9228)

1899 Fall p. 11.
1902 Kerremans p. 34.
1906 Kerremans p. 179.

Type locality: Santa Rita Mts., Arizona.
Type in Wickham Coll., Iowa City, Iowa.
Distribution: Arizona: Santa Rita Mountains.
Hosts: Unknown.

19. COQUILLETTI Fall (9235)

1899 Fall p. 15.
1901 Fall p. 119.
1902 Kerremans p. 34.
1906 Kerremans p. 89.
1913 Woodworth p. 195.

Type locality: Los Angeles Co., California.
Distribution: Colorado and So. California.
Colorado: Camp Baldy VII-22 (10).
California: (Cotype Los Angeles Co. July (10)); San Gabriel Mts. VI, VII (C); Pasadena (1); Sierra Madra VI (13); Mt. Wilson VI (13).
Hosts: Unknown.

20. CRIBRICOLLIS Horn, (9281)

1894 Horn p. 375 pl. 8 fig. 4.
1899 Fall p. 33.
1902 Kerremans p. 34.
1906 Kerremans p. 191.
1907 Fall p. 242.
1919 Van Dyke p. 190.

Type locality: Texas.
Distribution: California, Arizona and Texas.
California: Imperial Valley.
Arizona: Phoenix (1).
Texas: El Paso (4).
Hosts: Unknown.

CROCEONOTATA Lec., See FLAVOSTICTA Horn

21. CUBAECOLA Duv. (9220)

1857 Duval pp. 57-58.
1867 Cheverlot p. 583.
1892 Kerremans p. 169.
1893 Gundlach p. 166.
1895 Wickham* p. 295.
1899 Fall p. 16, 35 *(marginenotata).*
1902 Kerremans p. 34.
1906 Kerremans p. 61 pl. 11 fig. 5.
1914 Leng and Mutchler p. 429.
1918 Van Dyke p. 229.
1919 Van Dyke p. 190 pl. 7 fig. 6.
1925 Fisher pp. 30, 35, 39-41, 45.

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*The species referred to *cubacola* by Wickham has been described as *A. wickhami* by Fisher 1925 pp. 44-45.

Type locality: Cuba.
Distribution: Cuba and Florida Keys.
Florida: Key Largo (C); Big Key IX-19 (4); Metacombe Key (10); Key West (C).
Hosts: Not known.
Altitude: Sea level.

CULTA Web., See TUBULUS Fab.

22. CUNEATA Fall (9250)

1899 Fall p. 21
1900 Griffith p. 568.
1902 Kerremans p. 34.
1906 Kerremans p. 131 pl. 12 fig. 9.

Type Locality: Rio Verde, Utah.
Distribution: Arizona, California and Utah.
Arizona: Tempe Desert (1); Verde River (2); (Cotype Phoenix (7)); Prescott (C); Buchman Co. (10); Toena IV-13 (10).
California: Eldorado Co. VI (8); Plumas Co. VI (8).
Hosts: *Alnus tenufolia.*

23. CUPRINA Spin. (9215)

1838 Spinola p. 367.
1841 *hirtula* Gory p. 29 pl. 5 fig. 27
1878 Horn p. 5.
1882 Waterhouse p .20.
1889 Waterhouse p. 177.
1892 Kerremans p. 169.
1894 Horn p. 370.
1899 Fall p. 7.
1906 Kerremans p. 24.
1926 Mason p. 85.

Type locality: California? (Amer. Sept.)
Distribution: California? Arizona, Texas? Mexico; Tacambro, Mishocan; Amula, Guerrero, Alvarezo Mts., Japala, and Parada.
Hosts: Unknown.
Altitude: Up to 6000 ft in the Mountains of Mexico.

24. DAGGETTI Fall (9264)

1899 Fall p. 26.
1902 Kerremans p. 34.
1906 Kerremans p. 150 pl. 13 fig. 6.

Type locality: Huachuca, Arizona.
Distribution:: Arizona and Southern California.
Arizona: Phoenix (9); Prescott (9); Huachuca Mts. VII (C); Pinal Mts. (9); Santa Catalina Mts. (Sabino Basin) VII-8 (C); Cochise Co. (4); Nogalis VIII-1 (4); Tucson VI-7 (4); Palmerlee VIII-28 (Cotype, Arizona (10)).
Altitude: Ariz. 3800.
Season:: June-Sept. (Ariz.).

DELUMBIS Horn, See GIBBULA Leconte

25. DECIPIENS Lec. (9267)

1866 Leconte p. 348, 383.
1878 Horn p. 16 pl. 1 fig .17.
1892 Kerremans p. 170.
1899 Fall p. 26.
1902 Kerremans p. 29.
1907 Fall and Cockerell p. 180.

Type locality: Arizona.
Distribution: Arizona, New Mexico, Texas.
Arizona: Oak Cr. Can. VII; Huachuca Mts. VIII-5 (16); Ft. Huachuca (7).
New Mexico: Ft. Wingate VI, VII, VIII, IX, X, (4), (18), (C); Los Crucis V-9 (10).
Texas: Bruster Co. VI-10 (10).
Hosts: Adults taken on Verbisina.
Season: June-October.

26. DOHRNI Horn (9260)

1878 Horn p. 15 pl. 1 fig. 21.
1892 Kerremans p. 170.
1899 Fall p. 24.
1901 Fall p. 119.
1902 Hopping p. 202.
1902 Kerremans p. 34.
1906 Kerremans p. 145.
1913 Woodworth p. 195.

Type locality: California.
Distributon: California, Utah and Nevada.
California: Mariposa, Los Angeles and Eldorado Counties, Kaweah (2); San Luis Obispo IV (16); San Gabriel Mts. VII-29 (4); Mt. Wilson VI (13); Deep Creek, S. B. Mts. 6000 ft. VI-5 (7).
Utah: Iron Co. (C).
Nevada: Franktown (4).
Hosts: *Ceanothus* sp.
Altitude: 8000 Calif.

27. DISJUNCTA Fall (9225)

1899 Fall p. 9.
1902 Cockerell p. 378.
1902 Kerremans p. 34.
1906 Kerremans p. 75.
1907 Fall & Cockerell p. 180.

Type locality: Arizona.
Distribution: Arizona, New Mexico, Texas and Mexico.
Arizona: Comobai Mts. Cobabi Mts. VIII; S. B. Ranch, Cochise Co. (4); Rincon Mts. 3750 ft. (1); Huachuca Mts. VIII-23 (16); New Mexico.
Texas: Chisos VII (8). Mexico (c).
Hosts: Adults taken on *Helianthus annuris.*

DISPAR Gory, See PULCHELLA Herbst.

28. DISTINCTA Kerremans (9269)

1902 Kerremans p 29.
1906 Kerremans p. 171.

Type locality: Colorado
Hosts:: Unknown.

29. DOLOROSA Fall (9262)

1899 Fall p. 25 pl. 1 fig. 35
1901 Fall p. 120.
1902 Kerremans p. 34.
1906 Kerremans p. 148.
1907 Fall p. 241.
1913 Woodworth p. 195.
1917 Chamberlin p. 168.

Type locality:: Pasadena, Los Angeles Co., California.
Distributon: So. California.
So. California: Mt. Wilson VI (c); Bishop VI (13); Azusa VI (13); Pasadena V (13); S. Madra V (13); Echo Mt. 3000 ft. (c); Cotype S. Berdo. Mts. 6400 ft. (7); Cotype L. A. Co. (10).
Hosts: Not known.

EVE Fall

Fall: Manusript Name.
Distribution: Bishop, California (c).

30. FACETA Fall (9278)

1907 Fall p. 241.

Type locality: Santa Rosa, Lower California.
Distribution: Lower California.
Hosts: Unknown.

31. FALLI Kerremans (9223)

1899 *subcyanea* Fall p. 8 (Name preoccupied).
1903 *Falli* n. n. Kerremans p. 34.
1906 Kerremans p. 71 pl 11 fig. 6.
1907 Fall and Cockerell p. 180.

Type locality: Arizona.
Type in the Horn Coll. at Philadelphia.
Distribution: New Mexico, Arizona, Texas and California.
Arizona: Palmarlee, Cochise Co. VIII (9); San Bernardino Ranch, Cochise Co. VIII 3750 feet (Snow); Douglas (4).
California: San Bernardino Co.
Texas: Kent, Colberson Co. IX.
Mexico: Durango (9).
Hosts: Unknown.
Altitude: Texas 4000 ft.; Arizona 3750 ft.

32. FENYESI Fall (9231)

1899 Fall p. 12.
1902 Kerremans p. 34.
1906 Kerremans p. 84 p. 11 fig. 9.
1913 Woodworth p. 195.

Type locality: So. California.
Distribution: California, Colorado and Utah.
California: Lake Co. (2); Los Angeles VI (7); Azusa V (13); S. Madra (13); Pasadena VI-9 (C); San Diego Co.; Riverside Co. (5); San Bernardino Co. (5); (Cotype L. A. and San Diego Co.) (10).
Colorado: (4).
Utah: (Knaus).
Hosts: Unknown.

33. FLAVOMARGINATA Gray (9216)

1832 Gray p. 358 pl. 31 fig. 2.
1834 Chevrolat Fasc. III No. 2, pl. 31 fig. 22.
1837 Laporte et Gory p. 2 pl. 1 fig. 2.
1838 Spinola p. 360.
1848 White p. 5.
1857 Lacordaire p. 67.
1857 Leconte p. 7.
1859 Leconte p. 222.
1866 Leconte p. 383.
1878 Horn p. 8 pl. 1 fig. 4.
1882 Waterhouse p. 21 p. 178.
1982 *proxima* Waterhouse p. 178.
1892 Kerremans p. 172.
1894 Horn p. 328, 369.
1897 *contigua* Kerremans p. 42.
1899 Fall p. 8.
1900 Kerremans p. 285.
1901 Fall p. 119.
1902 Kerremans p. 28.
1906 Kerremans p. 31.
1913 Woodworth p. 195.
1914 Leng. & Mutchler p. 429.
1917 *contigua* Kerr.=*flavomarginata* Gory, Leng. & Mutchler p. 205.
1925 Fisher pp. 30, 36-37.

Type locality: Eagle Pass, Texas. (Brazil—See Gray.)
Distribution: Southern California, Southwestern Texas, Arizona, Mexico, Chile and the Antilles.
Texas: Burnette Co. IX-17 (10); Austin (C); Eagle Pass (Lec.); Dallas (4); Carmal Co. (4); New Brunsfels (16).
Lower California: Santa Rosa (C); El Taste, San Felipe (18); San Jose del Cabo.
Mexico: Guanajuato; Villa Lerdo, Durango; San Geronimo, Guadalupe; Guadalajara; Jalisco; Tulam Hidalgo, Jalapa, Vera Cruz; Gaumer, Temax, Yucatan; Cordova; Oaxaca; Almolonga.
Hosts: Unknown.

FLAVOSIGNATA Gory, See PULCHELLA Herbst.

34. FLAVOSTICTA Horn (9249)

1863 *croceonotata* Leconte p. 43 (name preocupied).
1873 *flavosticta* Strum=*croceontata* Lec., Leconte p. 332.
1878 *flavosticta* n. n. for *croceonotata* Lec. Horn p. 15 pl. 1 fig. 16.
1882 Waterhouse p. 24.
1889 Waterhouse p. 180.
1891 Duges p. 10.
1892 Kerremans p. 172.
1894 Horn p. 328, 370.
1899 Fall p. 20.
1901 Fall p. 119.
1902 Kerremans p. 29.
1906 Kerremans p. 130.
1913 Woodworth p. 195.

Type locality: Lower California.
Distribution: Oregon?, California, Lower California and Mexico.
California: Los Angeles Co. (7), (2); Riverside (5); San Diego Co. (5); Palm Springs IV (13).
Lower California: Cabo San Lucis, Magdalena Islands, San Jose del Cabo (C); Santa Rosa (C).
Mexico: Chihuahua, Durango, Hidalgo.
Oregon: One doubtful record.
Hosts: Unknown.

35. GEMINA Horn (9288)

1878 Horn p. 23 pl. 1 fig. 37.
1892 Kerremans p. 172.
1894 *nebulosa* Horn p. 376.
1894 Horn p. 376-377.
1899 Fall p. 34.
1901 Fall p. 120.
1902 Kerremans p. 34.
1902 *nebulosa* Horn. Kerremans p. 35.
1906 Kerremans p. 200.
1907 Fall p. 242.
1913 Woodworth p. 195.
1913 *nebulosa* Horn=*gemina Horn*, Woodworth p. 195.
1917 Chamberlin p. 168.
1919 *gemina=acuta* Van Dyke p. 189.
1924 Chamberlin p. 193.

Type locality: San Bernardino Valley, California.
Distribution: California, Oregon.
California: Siskiyou (1); Mariposa (16); Eldorado (16); Los Angeles (5); Riverside (5); Tulare (4); Napa and San Bernardino County.
Oregon: Prospect, Jackson Co., Aug. 10, 1921 (A. L. Lovett) (C).
Hosts: Adults taken on Wild Buckwheat, *Erisgonum* Sp.

GERANII Harris, See TUBULUS Fab.

36. GIBBULA Lec. (9219)

1859 Leconte p. 69.
1859 Leconte p. 225 pl. 11 fig. 6.
1873 Crotch p. 90.
1878 Horn p. 24 pl. 1 fig. 38.
1892 Kerremans p. 173.
1894 *delumbis* Horn p. 378.
1898 Wickham p. 305.
1899 Wickham p. 235.
1899 Fall p. 35.
1901 Fall p. 119.
1902 Kerremans p. 29.
1902 *delumbis* Kerremans p. 34.
1902 Van Dyke p. 173.
1902 Van Dyke p. 200.
1904 Kunze p. 242.
1904 Wickham p. 307.
1906 Kerremans p. 55.
1907 Fall & Cockerell p. 154.
1907 *delumbis* Fall & Cockerell p. 154.
1908 McAtee p. 77.

Type locality: Type collected between El Paso, Texas, and San Diego, California.

Distribution: California, New Mexico, Arizona, Texas, Lower California.

California: San Diego (10); Pasadena IX (13); Palm Springs VI-16 (C); Ft. Yuma IV-10 (10).

Arizona: Santa Rita Mts. 8000 ft. (9);; Rincon Mts. (1); Florence VII-25 (1); Yuma (9); Palmerlee VIII-9 (4); Phoenix (C); Hot Springs VIII-25 (10); Comobai Mts.; St. Catalina Mts.; Tucson VIII-12 (4).

New Mexico:

Texas: Chisos VII-21 (8); Uvalde VI-18 (9).

Lower California:: Santa Rosa (4).

Hosts: Mesquite *(Prosopis julieflora)*.

Season: June (Florence), Sept. (Pasadena).

37. GRIFFITHI Fall (9218)

1899 Fall p. 36.
1900 Griffith p. 568.
1902 Kerremans p. 34.
1904 Kunze p. 242.
1904 Wickham p. 307.
1906 Kerremans p. 47.

Type locality: Tempe Desert, Arizona.

Distribution: Desert regions of Arizona; Phoenix, Huachuca Mts. (1); Tempe (8); Hot Springs VI-26 (10); Tucson VI-1 (4); Prescott (C).

Hosts: Probably Mesquite.

38. GUTTIFERA Lec. (9280)

1859 Leconte p. 72.
1859 Leconte p. 229.
1873 Crotch p. 90.
1878 Horn p. 21 pl. 1 fig. 34.
1878 *versuta* Horn p. 21 pl. 1 fig. 33.
1892 Kerremans p. 173.
1894 Horn p. 373.

1899 Fall p. 32.
1899 *versuta* Fall p. 32.
1901 *versuta* Fall p. 120.
1901 Fall p. 120.
1902 Kerremans p. 34.
1902 *versuta* Kerremans p. 181.
1906 Kerremans p. 181.
1907 *versuta* Horn = *guttifera* Lec. Fall p. 240.
1913 Woodworth p. 195.
1919 Van Dyke p. 187.

Type locality: Ft. Tejon, California.
Distribution: California, Arizona and Texas.
California: Pasadena VI-10 (1); S. Madra Mts. V, VI (2); Los Angeles Co. (5); Mt. Wilson VI-11, VI-24 (7); Los Gatos VI (13); Mariposa Co.
Arizona: Hot Springs VI-28 (10); Sabino Canyon V (10).
Texas: Chisos Mts. VII-24 (8).
Hosts: On Yucca blossoms and on Palo verde.

HAEMORRHOA Lec. (9245), See RUBRONOTATA Lap. et Gory

39. HEPBURNI Lec. (9243)

1859 Leconte p. 254.
1878 Horn p. 12 pl. 1 fig. 12.
1892 Kerremans p. 173.
1894 Horn p. 375.
1898 Cockerell p. 153.
1899 Fall p. 17.
1901 Fall p. 119.
1902 Kerremans p. 34.
1906 Kerremans p. 102.
1907 Fall p. 240.
1913 Woodworth p. 195.
1917 Chamberlin p. 167.
1917 Burke p. 329.
1919 Van Dyke p. 189.

Type locality: California.
Distribution: Arizona, California, Nevada, New Mexico.
California: Los Angeles, Eldorado (10); Kern (10); Mariposa VI (C); Sierra Nevada, Sonoma, Shasta, Lassen VI-5 (9); Tulare (16), and Placer Counties; Yreka (2); Keweah (2); Pomona IX-19 (7); Sawtell (9); Yosemite (10); Placerville (10); Santa Barbara (13); Pasadena VI (13); Sylvania (13); Raymond V (13).
Arizona: Comobabi Mts. VIII-10.
Hosts:: Taken on *Baeria* Sp. primrose and popy. Mines Garry oak *(Quercus garryana)*; Douglas oak *(Quercus douglasii)*; Live oak *(Q. wislizeni)* and Pear *(Pyrus communis)*.

39a. HEPBURNI var. LATIFLAVA Fall (9243a)

1907 Fall p. 240.
Type locality: Yosemite Valley, California.
Distribution: California south of Yosemite Valley.
California: Sierra Madra (13);Lancaster (13); Raymond (13).

HIRTULA Gory, See CUPRINA Spinola

40. HORNI Fall (9265)

1899 Fall p. 25.
1900 Kerremans p. 341.
1902 Kerremans p. 34.
1903 Kerremans p. 285.
1906 Kerremans p. 151.
1917 Chamberlin p. 168.
1919 Van Dyke p. 152.

Type locality: Arizona.
Type in the Horn Coll., Philadelphia.
Distribution:: Arizona and California.
California: San Jacinto Mt., Tuolumne Co., El Dorado Co. (7); Placerville (16).
Host: Unknown.

IMMACULATA Horn, See PULCHELLA Herbst.

41. INSIGNIS Horn (9289)

1894 Horn p. 328, 377.
1899 Fall p. 34.
1902 Kerremans p. 34.
1906 Kerremans p. 201.
1907 Fall p. 242.

Type locality: San Raymundo, Lower California.
Distribution: Lower California.
Hosts: Taken on Cactus.
NOTE—Known only by the type.

42. JACOSA Fall (9237)

1899 Fall p. 14.
1901 Fall p. 119.
1902 Kerremans p. 35.
1906 Kerremans p. 150.
1913 Woodworth p. 195.
1919 Van Dyke p. 152.

Type locality: Southern California (Sierra Foothills).
Distribution: Southern California and Colorado.
California: Pasadena V, VI (C); Sierra Madra (13); Mt. Wilson (13); (Cotype Los Angeles Co. VI (10)).
Colorado: Camp Baldy VII-28 (10).
Hosts: Unknown.

43. LABYRINTHICA Fall (9251)

1899 Fall p. 21.
1901 Fall p. 119.
1902 Kerremans p. 35.
1906 Kerremans p. 132 pl. 13 fig. 1
1907 Fall p. 241.
1913 Woodworth p. 195.
1917 Chamberlin p. 167.

Type locality: Tuolumne Co., California.
Distribution: Arizona, California, Utah and Nevada.
Arizona:

California: (Cotypes, Los Angeles and San Diego Counties (10)); Castella VII-6 (15); Argus Mts. V (10); Pasadena IV-20 (11); Amador (18), San Bernardino VI-5 (7), San Diego (10), Santa Clara, Tulare (4), and Siskiyou Counties; Pomona V-19 (7); Placerville VII (10); Palm Springs (13); Azusa V (13); Waterman Canyon V-26 (11); Milpitas V-21 (C).
Hosts: Yellow pine *(P. ponderosa)*. Adults taken on California poppy.

LANATA Horn (9232), See PUBIVENTRIS Horn

44. LATICOLLIS Kerr. (9257)

1902 Kerermans p. 28. 1906 Kerremans p. 142.
Type locality: North America.
NOTE—Known only by the type.

LATIFLAVA Fall, See HEPBURNII Lec.

*LARREAE Fall (9282)

1907 Fall p. 241. 1918 Burke p. 211.
Type locality: Mojave, California.
Distribution: Arizona, California: Mojave VI-25 (13).
Hosts: Mines wood of Creosote bush *(Covilla tridentata)*.

45. LIBERTA Fall

1922 Fall p. 89.
Type locality: Independence, California.
Distribution: California and Arizona.

46. LUCIA Fall (9271)

1901 Fall p. 307. 1906 Kerremans p. 173 pl. 13 fig. 9
Type locality: Prescott, Arizona.
Distribution: Colorado, Arizona, New Mexico ,and California.
Colorado: Glenwood Springs (13).
Arizona: Bill Wms. Fork (1); Phoenix (1); Ft. Apache; Yavapai V; Prescott VI, VII, IX (C).
New Mexico: Ft. Wingate VIII; Copitiris IV-26 (10).
California: Bishop VI (13).
Hosts: Unknown.

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*Probably synonymous with *A. cribricollis* Horn.

47. MACRA Horn (9222)

1878 Horn p. 8 pl. 1 fig. 5.
1892 Kerremans p. 175.
1898 Wickham p. 305.
1899 Fall p. 10.
1902 Kerremans p. 35.
1906 Kerremans p. 69.

Type locality: Texas.
Distribution: Arizona and Texas.
Arizona:: Tucson.
Texas: Round Mt. (8); Burnette Co. II (16).
Hosts: Unknown.

48. MACULIFERA Horn (9221)

1894 Horn p. 372 pl. 8 fig. 5.
1899 Fall p. 8.
1902 Kerremans p. 35.
1906 Kerremans p. 67.
1907 Fall & Cockerell p. 180.

Type locality: Texas.
Distribution: New Mexico and Texas.
New Mexico: Los Crucis IX-23.
Texas: Macdona VII-25 (8).
Hosts: Taken on *Biglovia* sp.

49. *MARGINENOTATA Chev.

1867 Cheverlot p. 387.
1892 Kerremans p. 176.
1905 Kerremans p. 56.
1919 Van Dyke p. 190 pl. 7 fig. 7.
1921 Nicolay p. 173.
1925 Fisher p. 29, 34-35.

Type locality: Cuba.
Distribution: Cuba and Florida Keys.
Florida: Key Largo (C); Metacombe Key (16).
Hosts: Unknown.

50. MARIPOSA Horn (9261)

1878 Horn p. 22 pl. 1 fig. 35.
1892 Kerremans p. 175.
1899 Fall p. 24.
1901 Fall p. 119.
1902 Hopping p. 202.
1902 Kerremans p. 27.
1906 Kerremans p. 147.
1913 Woodworth p. 195.
1917 Burke p. 330.
1917 Chamberlin p. 163.

Type locality: Mariposa, California.
Distribution: California.
California:: Sonoma Co. (16); El Dorado Co. VI-7 (8); Raymond (13); Kaweah (2); Placerville V, VI (10); Lake Tahoe (15).

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*This species is listed in many collections under *A. cubaecola*.

Hosts: The adults feed on the foliage and the larvae mine the wood of mountain mahogany *(Cercocarpus parvifolius)*, Christmas Berry *(Heteromeles arbutifolia)*, Poison Oak *(Taxicodendron diversiloba)*, coffee berry *(Rhamnus californica)*, deer brush *(Caenothus integerrimus)*, blue brush *(C. thrysiflorus)* and red bud *(Cercis occidentalis)*.
Altitude: 8000 ft. Eldorado Co., Cal.
Season: May-July.

51. MILIARIS Horn (9238)

1878 Horn p. 10 pl. 1 fig. 9.
1892 Kerremans p. 175.
1898 Cockerell p. 152.
1899 Fall p. 15.
1902 Kerremans p. 35.
1906 Kerremans p. 93.
1907 Fall & Cockerell p. 180

Type locality: Texas.
Distribution: Arizona, Colorado, Utah, New Mexico and Texas.
Arizona: Flagstaff VII-15 (4); Ft. Huachuca VII-IX-12 (C); Oak Cr. Can. 6000 ft. (Snow).
Colorado: Durango (4).
Texas: Karrville V-30 (10); New Brunsfels (16).
New Mexico:: Walnut Creek, Magdalena Mts. (24).

MIMA Gory, See SCALARIS Mannerheim

MIXTA Lec., See PULCHELLA Herbst.

52. MORBOSA Fall (9248)

1899 Fall p. 20.
1901 Fall p. 119.
1902 Kerremans p. 35.
1906 Kerremans p. 129.
1913 Woodworth p. 195.

Type locality: Los Angeles Co., California.
Distribution: California: Pasadena (5); Pomona (5); S. Madra VI (13); Upland IV (13).
Hosts: Unknown.

MULTIGUTTATA Dejean, See ORNATA Fabricii

NEBULOSA Horn, See GEMINA Horn

53. NEGLECTA Fall (9287)

1899 Fall p. 31.
1902 Kerremans p. 35.
1905 Knaus p. 351.
1906 Kerremans p. 198 pl. 14 fig. 5
1919 Van Dyke p. 189.

Type locality: Texas.
Distribution: Colorado, Arizona, California and Texas.

Colorado: Canyon City (10).
California: Napa Co. (Horn).
Texas: (Cotype "Tex" (7)); (Cotype Burnett Co. (10)); Waco (11); Round Mt. (8); Austin (C); Fedor VI (13); Houston VI-25 (9); Cypress Mills VIII-10 (9).
Hosts: Unknown.

54. NEXA Fall

1922 Fall p. 89.
Type locality: San Bernardino Co., California VI-5-16.
Distribution: So. California: Mt. Lowe, Mt. Wilson, Camp Baldy, Sierra Madre Mts. (Fall).

55. OBESA Kerr

1909 Kerremans p. 271.
Type locality: Texas.
Distribution: Texas.

56. OBTUSA Horn (9268)

1878 Horn p. 19 pl. 1 fig. 29.
1892 Kerremans p. 175.
1894 Horn p. 376.
1899 Fall p. 29.
1902 Kerremans p. 29.
1906 Kerremans p. 170 pl. 13 fig. 8

Type locality: Texas.
Distribution: Colorado, New Mexico, Texas.
Colorado:: Durango (4).
New Mexico: Ft. Wingate VI.
Texas: Feder, Lee Co. VI-6 (2); Cypress Mills VII (1); Lurling (9); Paris (16); Lee Co. 3700 ft. (C).
Altitude: 3700 Lee Co. Texas.

OLYDINA Germ., See PULCHELLA Herbst.

57. OPACULA Lec. (9226)

1858 Leconte p. 69.
1859 Leconte p. 222 pl. 12 fig. 3.
1866 Leconte p. 383.
1878 Horn p. 7 pl. 1 fig. 2.
1892 Kerremans p. 176.
1899 Fall p. 10.
1902 Kerremans p. 35.
1906 Kerremans p. 76.
1913 Woodworth p. 195.
1926 Mason p. 85.

Type locality: El Paso, Texas.
Distribution: Arizona and Texas.
Hosts: Unknown.

58. OPINABILIS Fall (9276)

1899 Fall p. 30.
1902 Kerremans p. 35.
1906 Kerremans p. 184 pl. 14 fig. 2

Type locality: San Jose del Cabo, Lower California.
Distribution: Lower California (San Jose del Cabo) Santa Rosa (1); Cotype San Jose del Cabo (10).
Host: Unknown.

59. ORNATA Fab. (9247)

1775 *Buprestis ornata* Fabricii p. 220.
1781 *Buprestis* Fabricii p. 227.
1787 *Buprestis* Fabricii p. 180.
1788 *Buprestis* Linne p. 1931.
1790 *Buprestis* Oliver p. 50, No. 64, pl. 7, fig. 67.
1792 *Buprestis* Fabricii p. 199.
1801 *Buprestis* Herbst p 209 pl 154 fig. 5a-b.
1801 *Buprestis* Fabricii p. 199.
1801 *Buprestis* Weber p. 74.
1805 Illiger p. 90 no. 73.
1817 Schonherr p. 238.
1821 *Buprestis* Dejean p. 29.
1821 *Buprestis volvulus* Dejean p. 29.
1824 *Buprestis xanthocyina* Germar p. 38.
1829 *Buprestis geranii* Harris p. 8.
1829 Eschaltz p. 8.
1832 Gray p. 357.
1836 *Buprestis* Say p. 159.
1837 Laporte & Gory I, p. 6 pl. 2 fig. 7.
1837 *B. ornata, B. multiguttata* Dejean p. 84.
1838 Spinola p. 365.
1841 *dispar* Laporte & Gory p. 31 pl. 6 fig. 29.
1841 Laporte & Gory p. 31.
1848 White p. 5.
1857 Leconte p. 7.
1859 Leconte p. 224.
1866 Leconte p. 384.
1878 Glover pl. 41 fig. 11.
1878 var. *mixta* Glover pl. 44, fig. 34.
1878 Horn p. 14 pl 1 fig. 15.
1883 Leconte p. 592.
1886 Horn p. 137.
1889 Blanchard p. 30.
1892 Kerremans p. 176.
1893 Hopkins p. 181.
1894 Horn p. 374.
1898 Cockerell p. 152.
1899 Fall p. 23.
1900 Griffith p. 568.
1902 Kerremans p. 29.
1902 *dispar* Kerremans p. 29.
1902 Ulke p. 47.
1906 Kerremans p. 126.
1907 Fall & Cockerell p. 180.
1909 Blatchely p. 794.
1909 Smith p. 293.
1913 Manee p. 170.
1918 Dozier p. 331.
1922 Knull p. 79.

Type locality: North America (exact locality not known).
Distribution: Maine to Florida west to Colorado and Texas.
Virginia: Fredrichsburg V-31 (18).
Florida: Gainsville V-1 (18).

Ohio: Cincinnati V-14 (11).
Pennsylvania: Darby (8); Mt. Holly June; Carlisle Junction.
Indiana: (Blat).
North Carolina: Black Mts. V-23 (9).
South Carolina: (4).
Utah: Salt Lake (10); Dry Cr. Can. (10); Silver Lake VII (10).
Colorado: Manitou (18).
Texas: Burnett Co. (10); Fedor (2); Davis Mts. VII (8).
Arkansas: Marion Co. (C).
Arizona: Prescott (4); Yuma (4).
New Mexico:: Water Can. (24).
Nevada: (Leng Cat.).
Hosts: Adults feed on dogwood, dandelion, wild rose and locust blossoms; breeds in Hickory and Locust.

*PALLIDULA Kerr.

1909 Kerremans p. 269.

Type locality: California.

60. PLAGIATICAUDA Horn (9236)

1878 Horn p. 10 pl. 1 fig. 8.
1892 Kerremans p. 177.
1899 Fall p. 14.
1902 Kerremans p. 29.
1906 Kerremans p. 90.
1913 Woodworth p. 195.
1917bBurke p. 329.
1919 Van Dyke p. 189.
1917 Chamberlin p. 167.

Type locality: Mariposa Co., California.
Distribution: California.
California: Siskiyou (15); Mariposa, El Dorado, Tulare and Los Angeles Counties, Ahwahnee (13); Kaweah (2); Placerville (10); Lake Tahoe (15).
Host: Manzanita *(Arctostaphylos viscida)*.

61. POSTICA Fall (9263)

1899 Fall p. 25.
1901 Fall p. 120.
1902 Kerremans p. 36.
1906 Kerremans p. 149.
1913 Woodworth p. 195.
1919 Van Dyke p. 189.

Type locality: Los Angeles County, California.
Distribution: Southern California.
So. California: Cotype Los Angeles Co. VI (10); Monrovia V; San Gabriel VI (13); Pasadena: Sierra Madra VI (C); Bishop, Hullville.
Hosts: Unknown.

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*The status of this species is doubtful.

62. PRORSA Fall (9259)

1899 Fall p. 23.
1901 Fall p. 119.
1902 Kerremans p. 36.
1906 Kerremans p. 144 pl. 13 fig. 5
1913 Woodworth p. 195.
1919 Van Dyke p. 152.

Type locality: Los Angeles Co., California.
Distribution: Southern California.
So. California: El Dorado, San Bernardino and Los Angeles Counties. Los Angeles VI (5); Mt. Wilson VI-13 (1); Placerville (10); Sierra Madra VII (13); Pasadena VI-10 (C).
Hosts: Kellog Oak *(Quercus Kellogii)*, Myrtle *(Ceanothus cuneatus)*.

PROXIMA Waterhouse, See FLAVOMARGINATA Gray

63. PUBIVENTRIS Horn (9233)

1878 Horn p. 9 pl 1 fig. 7.
1880 Horn p. 148.
1880 *lanata* Horn p. 148.
1892 Kerremans p. 177.
1899 Fall p. 12.
1899 *lanata* Fall p. 11.
1901 Fall p. 119.
1902 Kerremans p. 36.
1902 *lanata* Kerremans p. 20.
1906 Kerremans p. 87.
1906 *lanata* Kerremans p. 85 pl. 12 fig. 1.
1903 *biedermanni* Skinner p. 239 pl. 10 fig. 2.
1907 *biedermanni* Kerremans p. 518.
1913 Woodworth p. 195.
1913 *lanata* Woodworth p. 195.
1919 *biedermanni* Skinner=*lanata* Horn, Van Dyke p. 188.
1919 *lanata* Horn=*pubeventris* Horn, Van Dyke p. 188.
1919 Van Dyke p. 187.

Type locality: Owen's Valley, California.
Distribution: Utah, Arizona, California.
Utah: Virginia River (4); St. George (4); Kanab.
Arizona: Type of *biedermanni* Florence V-8 (17); Tucson (9).
California: Owens Valley V, VI (17); Bishop V-20, VI (C); Mojave VI-1 (13); Lancaster V (13); Los Angeles Co. (5); San Bernardino Co. (5); Big Pine VI (10).
Hosts: Unknown.

64. PULCHELLA Herbst. (9272)

1790 *Buprestis ornata* (name preoccupied) Oliver p. 50 pl. 7 fig. 7.
1801 *Buprestis* Herbst p. 211, 216 pl. 44 fig. 6a-b.
1817 Schonherr p. 238.
1821 *Buprestis volvulus* Dejean p. 29.
1824 *olydina* Germar p. 38.
1836 *Buprestis* Say p. 159.
1837 *volvulus* Laporte et Gory I, p. 6, 7 pl. 2 fig. 8.
1837 *flavosignata* Dejean p. 84.
1837 *volvulus* Dejean p. 84.
1838 *ornata* Spinola p. 365.
1841 *flavosignata* Gory p. 30 pl. 6 fig. 29.
1841 *dispar* Gory p. 31 pl 6 fig. 29.
1857 *flavosignata* Gory=*volvulus* Fab. Leconte p. 7.
1857 *volvulus* Dej.=*pulchella* Herb. Leconte p. 7.
1857 *dispar* Gory, Leconte p. 7.
1857 Leconte p. 7.
1859 *mixta* Leconte p. 227.
1859 Leconte p. 225.
1860 *mixta* Leconte p. 222.
1863 Leconte p. 82.
1873 *dispar* Gory=*mixta* Lec., Leconte p. 332.
1873 Crotch p. 89.
1878 *pulchella, varigata, mixta.* Glover plate XX fig. 6.
1878 Schwarz p. 452.
1878 Horn p. 18 pl. 1 fig. 22.
1878 var *arizonae* Horn p. 19 pl. 1 fig. 25.
1878 var. *mixta* Horn p. 19 pl. 1 fig. 26.
1878 var. *immaculata* Horn p. 19.
1878 Hubbard & Schwarz p. 656.
1883 Leconte p. 591.
1885 Townsend p. 231.
1886 Hamilton p. 28.
1892 *flavosignata* Gory=*pulchella* Herb. Kerremans p. 172.
1895 Hamilton p. 364.
1895 Townsend p. 43.
1898 Cockerell p. 152.
1899 Wickham pt. VII p. 236.
1899 Fall p. 29.
1902 Kerremans p. 29.
1902 *ornata* Oliver, Kerremans p. 29.
1902 *volvulus* L. & G., Kerremans p. 29.
1902 *flavosignata* Gory, Kerremans p. 29.
1902 *mixta* Lec., Kerremans p. 29.

1902 *arizonae* Horn, Kerremans p. 29.
1902 *immaculata* Horn, Kerremans p. 29.
1902 Fletcher p. 107.
1904 Hopkins p. 39.
1905 Fall p. 271.
1905 Knaus p. 351.
1906 Kerremans p. 14 p. 175.
1907 Fall & Cockerell p. 181.
1909 Smith p. 293.
1909 Blatchley p. 793.
1909 Wickham p. 23.
1910 Burke p. 406.
1911 Watson p. 84.
1911 Gibson p. 12.
1912 Gibson p. 100.
1913 Manee p. 170.
1913 Woodworth p. 195.
1922 Knull p. 79.

Type locality: "Amer. Sept." (Exact locality not known.)
Distribution: Florida to Manitoba, west to California and Texas.
N. J.: Lisbon (2); De Costa (8).
No. Carolina: Black Mountains VI-13, VII-5 (9).
Georgia: Tifton (2); Savannah VI (18); Decatur Co. (4); Brunswick (10); Tybee Isl. VI-20 (8); Round Mt. VII-10 (8).
Florida: Key West (4); Sanford V (18); Pensacola X (18); Ft. Meyer IV (18); Lakeland V-4 (18).
Illinois: McBride (4); Oak Park VIII-5 (7).
Iowa: Keahut (2); Iowa City (W); Ames (W); Elma VI-15 (9).
Wisconsin: Beaver Dam VIII-I (C).
Michigan: Detroit (10).
Indiana: McAllister VI (10).
Pennsylvania: Erie July.
Kansas: Topeka (10).
Missouri: St. Louis (2).
Indian Territory: McAlester VI-11 (13).
Texas: La Vaca (10); Alvin VII-30 (18); Green Valley VII-10 (8); Chisos Val. VII-1 (8); Carmel Co.
Colorado: Pine Grove (10); Manitou (18); Colo. Springs (10); Cheyenne Can. VII (14).
Arizona: Yavapai Co. V (18); Tucson V-20 (18).
New Mexico: Red Mesa VI (C); Sandia Mts. (Watson); Ft. Wingate VI-5 (9); Coolidge 6975 ft. (24); Soledad Can. (24); S. F. Can. (24).
Montana: (2); Utah, Nebraska.
California: Owens Valley.
Canada: Manitoba, Ontario, Montreal.
var. mixta: El Paso, Tex. (4); Sapello Can. N. M. (4); Tucson, Ariz. VI-15 (4); Vowells Mills La. VIII (4); Vernon Parish La. (4); Denver, Colo. (4); Medicine Bow, Wyo. 6560 ft. VI-23 (4).
Var. *immaculata:* Colorado (4); Texas (4).
Var. *arizonae:* Key West, Fla. (4); Texas (4); Key Largo, Fla. (4); Steinhatchee, Fla. (4).

Hosts: Adults taken on opuntia, primrose, dandelion, thistle *(Rudbechia hurta)*, *(Ceanothus americanus)*, and *(Asclepias tuberosa)*. Breeds in Bald Cypress (Burke) *(Taxodium distichum)* and probably in the stems of some of the above mentioned plants.
Altitude: Colorado 2000.

PULCHELLA Gory, See VARIEGATA Leconte

PULCHERRIMA Duval

This is a Cuban species and should not appear on the U. S. list.

65. QUADRISERIATA Fall (9244)

1899 Fall p. 18.
1902 Kerremans p. 36.
1906 Kerremans p. 104.
1913 Woodworth p. 195.

Type locality: Los Angeles Co., California.
Distribution: So. California and Cuba.?
California: Pasadena XI-2 (C); Mt. Wilson VI-17 (16); Los Angeles Co. (10); Santa Barbara Co. (cotype Los Angeles Co. (10)).
Cuba: Guantanamo.?
Hosts: Unknown.
Altitude: Near sea level to 2000 ft.

66. QUADRIVITTATA Horn (9283)

1870 Horn p. 79.
1878 Horn p. 23 pl. 1 fig. 37.
1892 Kerremans p. 178.
1898 Cockerell p. 153.
1899 Fall p. 34.
1902 Kerremans p. 29.
1906 Kerremans p. 194.
1907 Fall & Cockerell p. 180.
1913 Woodworth p. 195.
1919 Van Dyke p. 188.

Type locality: Utah.
Distribution: Colorado, Arizona, New Mexico, Texas, California and Utah.
Colorado: (4), (C).
Arizona: Oracle VII-14 (10); Hot Springs VI-21 (10); Ft. Apache (13); Truxton 4200 ft. VI (C); Huachuca Mts. (10); Tucson (4);

ACMAEODERA PURCHIAE Fisher

Type locality: Reno, Nevada, June.
Host: Dead *Purchia tridentata.*

This species described in Ent. News 37, pp. 114-15 (1926), too late to be included in its proper place.

Nogalis (4); St. Catalina Mts. VIII-19, 3500 ft. (8); Coyote Mts. VII (8).
New Mexico: Silver City VII-12 (11); Soledad Can. (24); Mesilla Val. (24).
Texas: El Paso (4); Sanderson, Terrell Co., Davis Mts. VII-7 (8).
California: Mt. Lowe VIII (8); Los Angeles VII; Palm Springs (8); Mojave (5).
Utah: St. George.

QUATUORDECIMGUTTATA Lap. et Gory, See TUBULUS Fabricii

*14. SPILOTA Obenb.

1917 Obenberger p. 55.
1921 Nicolay p. 173.
Type locality: North America.

67. RECTICOLLIS Fall (9234)

1899 Fall p. 13.
1902 Kerremans p. 36.
1906 Kerremans p. 88.
1907 Fall & Cockerell p. 180.
Type locality: Winslow, Arizona.
Type in the Horn Coll., Philadelphia.
Distribution: Arizona (Winslow) and New Mexico.
Host: Taken on *Fullugia.*
Altitude: 6300.

RETIFERA Lec., See ACUTA Leconte

68. ROBUSTA Horn (9229)

1878 Horn p. 9 pl. 1 fig. 7.
1892 Kerremans p. 179.
1899 Fall p. 10.
1901 Fall p. 119.
1902 Kerremans p. 29.
1906 Kerremans p. 81.
1913 Woodworth p. 195.
1919 Van Dyke p. 153.
Type locality: Owens Valley, California.
Distribution: So. California.
California: Owens Valley, Bishop VI-25 (10), VIII (1).

68a. variety RUBROSUFFUSA Fall (9229a)

1907 Fall p. 240.
Type locality: Mojave, California.

*The status of this species is doubtful.

69. RUBESCENS Schaef. (9290)

1904 Schaeffer p. 210.
1907 Kerremans p. 615.
Type locality: Santa Rosa, Lower California.
Distribution: Lower California, Santa Rosa (1); El Taste (1).

70. RUBRONOTATA Lap. et Gory (9246)

1837 Laporte et Gory p. 5 pl. 1 fig. 5.
1838 *stelaris* (Name preoccupied) Spinola p. 364.
1841 *stellaris* Gory p. 28 pl. 5 fig. 25.
1849 Solier p. 481 pl. 12 fig. 2.
1858 *haemorrhoa* Leconte p. 68.
1859 *haemorrhoa* Leconte p. 223 pl 11 fig. 4.
1873 *stellaris* Chev.=*rubronottata* Gory, Leconte p. 332.
1873 *stellaris* Chev.=*fasciatopunctata* Chev., Leconte p. 332.
1878 *stellaris* Horn p. 14 pl. 1 fig. 18.
1882 Waterhouse III, p. 22.
1892 Kerremans p. 179.
1899 Fall 23.
1902 *haemorrhoa* Lec.=*stellaris* Chev., Kerremans p. 28.
1913 Woodworth p. 195.
1913 *stellaris, haemorrhoa,* Woodworth p. 195.
Type locality: Chile.
Distribution: Texas, Mexico, Chile.
Texas: Laredo.
Mexico: Pueblo, Chihuhua, Michican and Guerrero.

71. SCALARIS Mann. (9266)

1837 Mannerheim p. 25.
1841 *mima* Gory p. 29 pl 5 fig. 26.
1858 *semivittata* Leconte p. 69.
1859 *stepburni* Lecnote p. 227.
1859 *semivittata* Leconte p. 227 pl. 11 fig. 7.
1859 Leconte p. 227.
1866 *semivittata* Leconte p. 383.
1873 *mima* Gory=*semivittata* Lec., Leconte p. 332.
1878 *mima* Gory, Horn p. 17.
1878 *mima* Gory=*semivittata* Lec., Horn p. 26.
1882 *mima* Waterhouse p. 23, 179.
1891 *steuburni* Lec., Duges p. 9.
1892 Kerremans p. 179.
1895 *mima* Townsend p. 43.
1898 *mima* Cockerell p. 152.
1899 Fall p. 27.
1902 Kerremans p. 29.
1902 *mima* Kerremans p. 29.
1902 *semivittata* Kerremans p. 29.
1902 Cockerell p. 378.
1906 Kerremans p. 158.
1907 Fall & Cockerell p. 179.
1908 Heyne and Taschenberg p. 127.
Type locality: North America.
Distribution: Arizona, New Mexico, Texas, Mexico.

Arizona: Santa Rita Mts. VIII (C); Coyote Mts. 3500 ft. VIII (5); Tucson 3600 ft. VIII-14 (18); Ft. Huachuca (7); Pinal Mts. (4); Kitt's Peak VIII-10 (18); S. B. Ranch, Cochise Co. 3750 ft. (6).
New Mexico: Orgon Mts., Los Crucis III-8; Soledad Can. (24).
Texas: El Paso; Sweetwater, Nolan Co. VIII (C); Brownsville VIII-27 (C); Carmal Co. (4); Demmit Co. VI-10 (10).
Mexico: Lan Louis Potosi; Pueblo; Coahuila; Durango; Michican; Matamoras, Villa Lerdo; Monterey and Guerrero.
Hosts: Adults taken on *Vebesina encelioides, Polypteris hookerina* on Thurbaria and thistle.
Altitude: 6000 ft. in Guerrero, Mexico. Texas 2100.

72. SCAPULARIS Horn (9217)

1894 Horn p. 328, 369 pl. 8 fig. 6.
1899 Fall p. 7.
1902 Kerremans p. 36.
1906 Kerremans p. 12.

Type locality: Sierra El Chinche, Lower California.
Distribution: Lower California and California.
Lower California: El Taste (1); Santa Rosa (16).

SEMIVITATA Lec., See SCALARIS Mannerheim

73. SERENA Fall (9241)

1899 Fall p. 16.
1902 Kerremans p. 36.
1906 Kerremans p. 99.

Type locality: Tucson, Arizona.
Distribution: Arizona.
Arizona: Tucson; Huachuca Mts. VII (C); Palmarlee (9); Ray (10).
Hosts: Horse bean *(Parkinsonia microphylla).*

74. SINUATA Van Dyke

1919 Van Dyke p. 152 pl. 7 fig. 1.
1921 Nicolay p. 173.

Type locality: Hullville, Lake Co., California.
Distribution: California (Los Angeles, El Dorado and Lake Counties).
Host: *Ceanothus cuneatus.*

75. SPARSA Horn (9239)

1878 Horn p. 11 pl. 1 fig. 10.
1899 Fall p. 15.
1899 Wickham pt. 7 p. 236.
1902 Cockerell p. 378.
1902 Kerremans p. 29.
1902 Skinner p. 40.
1906 Kerremans p. 96 pl. 12 fig. 2.
1907 Fall & Cockerell p. 180.

Type locality: Manitou, Colorado.
Distribution: Colorado, New Mexico, Arizona, Utah and California.

Colorado: Cheyenne Can. (10); Waldo Can. (10); Glenwood Springs VIII (13); Colorado Springs.
New Mexico: Koehler (C); Beulah VIII; Magdalena Mts. VI., Los Vegas VIII-16 (10); Gallup (4); Ft. Wingate VI, IX (4); Oak Cr. VIII (10); Grant Co. VI-1 (9).
Arizona: Sabino Basin (18); Ft. Huachuca VII (7); Cochise Co. VI (16).
Hosts: Taken on *Chrysopsis villosa* and *Achillea millifolium*. On Yarrow weed.
Altitude: 6000 ft. in Arizona.
Season: June-Aug.-Sept.

76. SQUAMOSA Van Dyke

1919 Van Dkye p. 186.
1921 Nicolay p. 173.
Type locality: Florence, Arizona.
Distribution: Arizona.
Arizona: Paratype Hot Springs VI-29 (10); Catalina Springs, and Florence.
Hosts: Taken on *Jatropha multifida* and bred from Palo Verde.

STELLARIS* Spinola, See RUBRONOTATA Laporte et Gory

STEPBURNI Lec., See SCALARIS Mannerheim

77. STIGMATA Horn (9277)

1894 Horn p. 328, 370, 372 pl. 7 fig. 2.
1898 Wickham p. 305.
1899 Fall p. 32.
1902 Kerremans p. 36.
1906 Kerremans p. 186 pl. 14 fig. 3.
1907 Fall p. 241.
Type locality: Tucson, Arizona.
Distribution: Arizona and Lower California.
Arizona: Bill Wms. Fork VIII (2).
Lower California: Cabo San Lucis, San Jose del Cabo, Santa Rosa VIII (C); El Taste (1).
Hosts: Taken on flowers of mimosa.

78. SUBBALTEATA Lec. (9275)

1863 Leconte p. 82.
1873 Crotch p. 90.
1878 Horn p. 20 pl. 1 fig. 31.
1892 Kerremans p. 180.
1894 Horn p. 328.
1899 Fall p. 30.
1902 Kerremans p. 36.
1906 Kerremans p. 183.
1907 Fall & Cockerell p. 180.
Type locality: Cape San Lucas, Lower California.
Distribution: New Mexico and Lower California.
Hosts:

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*NOTE—The *stellaris* of Cheverlot is a Mexican species.

SUBEYANEA Fall, See FALLI Kerremans

79. TENEBRICOSA Fall

1922 Fall p. 90.

Type locality: Havilah, Kern Co., California VI-6-13 (Coll. Pilate).
Distribution: Southern California: Havilah and Bear Lake.

80. TEXANA Lec. (9274)

1859 Leconte p. 228, 229.
1873 Crotch p. 89.
1878 Horn p. 20 pl. 1 fig. 32.
1892 Kerremans p. 181.
1899 Fall p. 30.
1902 Kerremans p. 29.
1906 Kerremans p. 180.

Type locality: Texas.
Distribution: Texas and Lower California.
Lower California: San Jose del Cabo (1); Santa Rosa (1).

81. TUBULUS Fab. (9286)

1801 *Buprestis* Fabricii p. 200.
1801 *B. culta* Weber p. 75.
1802 *B. culta* Web., Illiger p. 248.
1829 *geranii* Harris p. 8.
1837 Laporte Gory I, p. 11 pl. 3 fig. 15.
1837 *quatuordecimguttata* Laporte et Gory p. 12 pl. 3 fig. 18.
1836 Say p. 159.
1837 *Buprestis* Dejean p. 84.
1838 Spinola p. 383.
1843 Strum p. 56.
1848 White p. 6.
1857 Leconte p. 7.
1857 *B. culta* Web., Leconte p. 7.
1857 *B. geranii* Har., Lec. p. 7.
1859 Leconte p. 228.
1870 Horn p. 79.
1873 Crotch p. 90.
1878 *culta* Horn p. 22 pl 1 fig. 36.
1878 *culta, tubulus* Glover, pl. XI fig. 35.
1878 *culta* Schwarz p. 452.
1878 *culta* Hubbard & Schwarz p. 656.
1882 Waterhouse p. 27.
1883 Hayward p. 56.
1883 Leconte p. 592.
1889 *culta* Blanchard p. 30.
1889 Chittenden p. 220.
1892 Kerremans p. 181.
1893 Hopkins p. 184.
1893 *culta* Web., Townsend p. 202.
1894 Horn p. 371.
1894 *culta* Web., Horn p. 371, 376.
1895 *culta* Web., Hamilton p. 364.
1898 *culta* Web., Cockerell p, 152.
1899 Fall p. 31.
1901 Scott p. 31.
1902 *culta* Web., Ulke p. 47.
1902 Kerremans p. 29.
1902 *culta* Web., Kerremans p. 29.
1902 *geranii* Har., Kerremans p. 29.
1902 *quatuordecimguttata* Kerr. p. 29.
1902 Fletcher p. 107.
1906 Kerremans p. 197.
1906 *culta* Felt p. 715.
1907 Fall-Cockerell p. 180.
1909 Wickham p. 23.
1909 *culta* Smith p. 293.

1909 Blatchley p. 794.
1913 *culta* Manee p. 170.
1915 Lovell p. 75, 112.
1918 Dozier p. 331.
1919 Nicolay p. 17.
1920 Britton p. 243.
1920 Knull p. 7.
1922 Knull p. 79.

Type locality: North America (exact locality not known).

Distribution: Ontorio to Florida, west to Idaho, Nevada, New Mexico and Texas.

New Jersey: 5 Mi. Beach VI (8); Ft. Lee (18); Westville V (2); Buena (2); Namse V-30 (4); Greenwood Lake VI-4 (4).

Massachusetts: Newton (13); Medford (18); Framingham (14).

Pennsylvania: Bethlehem (13); Cresco (20); Hammelstown (20).

Connecticut: (1).

North Carolina: Kittrell (10); Black Mountains VI-20 (9).

Virginia: E Falls Church VI-18 (9).

Indian Territory: Atoka (13).

Gergia: Tifton (2).

Alabama: Spring Hill V-20 (11); Mobile V-7 (11); Mobile V-13 (9).

New York: Rockland Co. VI-21 (4); Long Island VII (19); Saffeson (18).

Florida: Enterprise (2); Green Cove Springs (4); Gainsville III-2, V-1 (18); Sanford V-8 (18); Tampa IV-18 (10); Fruitland Park (C); Gulfport (C).

Iowa: Iowa City (W).

Kansas: Onaga (4).

Arizona: Sabino Canyon (10).

Idaho: St. Simon IV (4).

Missouri: Kansas City (10).

Nevada: Verdi (7).

Texas: Dennison (10).

Washington, D. C.: (10).

Maryland: Baltimore (10); Plummers Iscland (10).

New Mexico: Los Vegas III-18 (10); Gallines Can. (24); Mesilla Val. (24).

Hosts: Taken on *Hypoxys erecta*, *Erigeron*, dogwood, *Asclepia tuberosa*, blackberry, *Granium maxulatum* and wile rose. Breeds in Red Haw *(Crataegus)*, stems of *Dasyleron wheeleri*, Hickory *(Hickoria su.)*, white oak *(Quercus alba)*, red bud *(Cercis canadensis)*.

82. TUTA Horn (9242)

1878 Horn p. 11 pl. 1 fig. 11.
1892 Kerremans p. 181.
1894 Horn p. 374.
1899 Fall p. 17.
1901 Fall p. 119.
1902 Kerremans p. 37.
1906 Kerremans p. 100 pl. 12 fig. 5
1907 Fall p. 240.
1913 Woodworth p. 195.

Type locality: St. George, Utah.
Distribution: Utah, Arizona, California and Texas.
Utah: St. George (16).
Arizona: Argus Mts. (10); Phoenix (C).
California: Death Valley (5).
Texas: (4).

83. VAN DYKEI Fall (9258)

1899 Fall p. 23.
1901 Fall p. 119.
1902 Kerremans p. 37.
1906 Kerremans p. 143
1913 Woodworth p. 195.
1917bBurke p. 330.
1917 Chamberlin p. 167.
1924 Chamberlin p. 193
1925 Good p. 272 fig. 47.

Type locality: Washington State.
Distribution: Washington, Oregon, California, Utah and Nevada.
Oregon: Klamath Falls VII-9 (C); Sparta VII-3 (Van Dyke).
California: Santa Clara Co. (16); Los Angeles Co. (5);; Placerville (10); Lake Tahoe V-27 (C); Mowhawk (13); Mendicino Co. VI-10 (4); Alameda Co. (1); Sierra Madra (13); Cotype, Siskiyou Co. (10); San Diego Co.; McCloud VII.
Hosts: Breeds in *Ceanothus integerrimmus* and *Quercus wislizeni.*
Altitude: Sea level to 5000 ft.

84. VARIEGATA Lec. (9256)

1852 Leconte p. 67.
1859 Leconte p. 226.
1866 Leconte p. 384.
1873 *pulchella* Gory = *variegata* Lec. Leconte p. 332.
1878 Horn p. 16 pl 1 fig. 19.
1892 Kerremans p. 181.
1894 Horn p. 375.
1898 Cockerell p. 152.
1899 Fall p. 22.
1901 Fall p. 119.
1900 Kerremans p. 42.
1902 Kerremans p. 29.
1906 Kerremans p. 140.
1907 Fall & Cockerell p. 180.
1911 Watson p. 81.
1913 Woodworth p. 195.
1917 Chamberlin p. 167.
1924 Chamberlin p. 193.

Type locality: Santa Fe, New Mexico.
Distribution: Rocky Mountain and Pacific Coast States.
Oregon: Hood River V-21 (10).

California: Carrville, Trinity Co. VI (15); Mojave (5).
Idaho: Idaho Falls (3).
Utah: Park City VI (10); Silver Lake VII (8); Big Cottonwood Canyon (10); Provo VII-10 (9); Wahatch Mts. VI-20 (10); Salt Lake City VI (2), VII-26 (4); Ogden (10); Beaver Creek Canyon V-29 (18); American Fork Can. VI-23 (10); Emigration Can. VII-23 (10).
Colorado: Glenwood Springs (13).
New Mexico: Almogordo V (10); Aztec (10); Albuquerque (W).
Arizona: Prescott (4).
Nevada and Texas.
Hosts: Beaten from dead branches of *P. ponderosa*.
Season: May-August.

VERSUTA Horn, See GUTTIFERA Leconte

VOLVULUS Dej., See ORNATA Fab. and PULCHELLA Herbst.

85. WENZELI Van Dyke

1912 Van Dyke p. 154 pl. 7 fig. 4. 1921 Nicolay p. 173.
Type locality: Chisos Mts. Texas.
Distribution:: Chisos Mts. Texas.
Host: Unknown.

86. WHEELERI Van Dyke

1919 Van Dyke p. 155 pl 7 fig. 5. 1921 Nicolay p. 173.
Type locality: Sabino Canyon, Santa Catalina Mountains, Arizona.
Distribution: Santa Catalina Mountains, Arizona.
Host: Unknown.

Genus *ACTENODES* Lac.

1833 Dejean p. 80 (no description) 1857 Lacordaire Vol. IV p. 72-73.
Type of the genus CHRYSOBOTHERIS CHALYBEITARSIS. Chev.

87. ACORNIS Say (9481)

1836 *Buprestis* Say p. 159.
1841 *Chrysobotheris rugulosa* Gory p. 177 pl. 30 fig. 172.
1844 *Chrysobothris punctata* Melsheimer p. 147.
1859 Leconte p. 241.
1859 *Belionta californica* Motschulsky p. 184.
1873 *C. rugulosa* Gory=*A. acornis* Say, Leconte p. 332.
1878 Hubbard-Schwarz p. 656.
1883 Leconte p. 592.

1886 *C. Californica* Mots.=*A. acornis* Say, Horn p. 118.
1892 Kerremans p. 200.
1897 Castle p. 8.
1902 Ulke p. 21, 47.
1903 Kerremans p. 194.
1901 *B. Californica* Mots.=*A. acornis* Say, Fall p. 117.
1903 *rugulosa*, *punctata* Kerremans p. 194.
1904 Schaeffer p. 209.
1906 Felt p. 751.
1909 Blatchley p. 792.
1909 Smith p. 292.
1913 Woodworth p. 195.
1919 Nicolay p. 19.
1920 Britton p. 244.
1920 Knull p. 7.
1922 Knull p. 83.
1925 Good p. 272 figs. 6, 12.

Type locality: Indiana.

Distribution: New York to Florida, west to Michigan, Wisconsin, Iowa and Texas.

New York: Rockaway Beach VI-2 (19); Yaphank VII-13 (19); Montauk Beach VII-2 (10); Bellport VII (19); Port Jefferson VI-7 (19); Buffalo (10).

Pennsylvania: Hummelstown (20) Jennette, July (Klages); Chestnut Hill, Charter Oak (Knull).

Wisconsin: Neopit VII-7 (C); Lake Co. VI-10 (11).

Michigan: Detroit (10).

New Jersey: Atlantic City (10).

Ohio: Cincinnati (11).

Louisiana: Vernon Parish (4).

Virginia: Falls Church (10).

Kentucky: (4).

Indiana: Orange Co. VI-2 (10).

Texas: Brownwood VI (10).

Hosts: Bred from Red Maple *(Acer rubrum)*, hickory *(Hickoria sp.)*, beech *(Fagus americana)*, black birch *(Betula lenta)* and black oak *(Quercus velutina)*.

AURONOTA L. and G., See AURONOTATA L. and G.

88. AURONOTATA Laport-Gory (9482)

1833 *bellula* Dejean p. 80 (no description).
1836 *bellula* Dejean p. 90 (no description).
1836 Laport et Gory II p. 20 pl. 4
1837 *bellula* Mannerheim p. 79. fig. 30.
1843 *Chry. auriguttata* Sturm. p. 61.
1843 Sturm p. 61.
1857 Duval p. 64.
1859 *bella* Leconte pp. 240-241.
1867 Chevrolot p. 584.
1873 *bella* Lec.=*auronotata* L.-G., Leconte p. 332.
1878 Schwarz p. 451.
1878 Leconte p. 470.
1891 Gundlock p. 168.
1892 Kerremans p. 200.
1903 Kerremans p. 194.

1903 *auronotata* = *bellula*, Kerremans p. 194.
1904 Schaeffer p. 209.
1906 Wenzel p. 38.
1914 Leng-Mutchler p. 430.
1918 Dozier p. 331.
1922 Champlin and Knull p. 102.
1925 Fisher p. 84, 88-90.

Type locality: Cuba.
Distribution: Georgia, Florida, Cuba, Antilles, Haiti and Chile.
Georgia: Tybee Isl. VI-21 (8); Savannah (10).
Florida: Key West IX-18 (4); Miami (1); Elliott Key (1); Lake Worth (10); Biscayne (10); Gainsville VI-27 (Dozier), Marathon (10); Paradise Key, April 15 (Knull).
Host:: Breeds in Cypress *(Taxodium distichum)*.

BELLA Leconte, See AURONOTATA L. and G.

BELLULA Manner., See AURONOTATA L. and G.

89. CALCARATA Chev. (9483)

1834 *Chrysobotheris calcarata* Cheverlot p. 103.
1837 *C. fulgurata* Mannerheim p. 80.
1838 *C. ziczac* Dejean p. 90.
1841 *C. fulgurata* Gory II p. 29 pl. 6 fig. 42.
1841 *C. lebasi* Gory II p. 29 pl. 6 fig. 43.
1844 *Chrysobothris* Melsheimer p. 145.
1868 Glover p. 92.
1875 Horn p. 148.
1878 Schwarz p. 451.
1878 Leconte p. 470.
1878 Glover plate XXXIII fig. 38.
1882 Waterhouse p. 31.
1889 Waterhouse p. 182
1891 Horn p. 46.
1892 Kerremans p. 200.
1898 Wickham p. 305.
1901 Fall p. 117.
1904 Schaeffer p. 209.
1918 Burke p. 211.
1925 Fisher p. 84.

Type locality: Mexico.
Distribution:* Southern Arizona and Texas, Mexico, Guatemala, Nicaragua and Colombia.
Arizona: Tucson (13); Bill Williams Fork VIII (c); Phoenix (4); Yuma (c); Florence VIII-3 (c); Texas (Horn).
Mexico: Matamoras (13).
Host: Palo verde *(Cercidum torreyanum)*, Bacchata *(Zizyphus obtusifolia)*, (reported to breed in peach and White Oak by Glover and bred from *Hickoria* sp. by A. B. Champlain).

*This species has been reported from Florida and from Rockville, Pa. Probably an error in determination or in labeling.

90. FLEXICAULIS Schaef. (9484)

1904 Schaeffer p. 209.
Type locality: Brownsville, Texas.
Distribution: Taken only near Brownsville, Texas.
Host: Larva work in *Acacia flexicaulis*.

FULGURATA Mannerheim, See CALCARATA Cheverlot.

LEBASI Laporte-Gory, See CALCARATA Cheverlot.

91. MENDAX Horn (9480)

1891 Horn p. 46.
1901 Fall p. 117.
1903 Kerremans p. 195.
1904 Schaeffer p. 209.
1913 Woodworth p. 195.
Type locality: Ft. Yuma, Arizona.
Distribution: Arizona, Texas, California, Illinois and Mexico.
Arizona: Paratype "Ariz." (17); Prescott (9); Yuma (9).
Texas: New Brunsfels VI-16 (1); Lectotype "Tex.", Paratype "Tex." (17).
Illinois: Paratype "Ill." (17).
Mexico: Reynosa V-20 (10).

PUNCTATA Melsheimer, See ACORNIS Say

REGULOSA Gory, See ACORNIS Say

ZICZAC Dejean, See CALCARATA Cheverlot.

Genus *AGAEOCERA* Water.

1882 Waterhouse p. 4.
Type of the genus ANTHAXIA GIGAS Gory.

92. GENTILIS Horn (9306)

1878 *Halecia gentilis* Horn p. 144.
1885 *Halecia gentilis* Horn p. 95.
1886 *Halecia* Henshaw p. 95.
1889 Waterhouse p. 169.
1892 Kerremans p. 50.
1903 *fenyesi* Kerremans p. 60.
1908 Kerremans p. 275.
1909 *Anataxia gentilis* Casey p. 172.
1920 Chamberlin p. 243.
1925 Good p. 272 fig. 14.
Type locality: Texas.
Distribution: Arizona, Texas and Mexico.
Arizona: St. Catalina Mts.; Coyote Mts. 3800 ft.
Texas: Uvalde VII-18, 930 ft. (10); Brewster Co. VI (10); San Diego VI-10 (10); Sabina V-26 (10); Rio Grande VI-17 (10); Dimmit Co. (10).
Mexico: Sonora 4000 ft.; Villa Lerdo, Durango, and Coa Niela.

93. SCINTILLANS Water.

1882 Waterhouse p. 4.
1892 Kerremans p. 60.
1903 Kerremans p. 50.
1920 Chamberlin p. 243.
1923 Nicolay p. 174.

Type locality: Sonora (the spelling in the original work is Songora), Mexico.
Distribution: Arizona and Mexico.
Mexico: Sonora (Waterhouse); Venedio, Sinaloa VIII-5 (c), (15).
Arizona: Sabino Basin, St. Catalina Mts. VII-10, 3800 ft. (c).

Genus *AGRILAXIA* Kerr.

1902 Kerremans p. 177.
Type of the genus ANTHAXIA FLAMIMANA Gory

94. FLAVIMANA Gory (9399)

1837 Dejean p. 91 (no description)
1841 Gory IV p. 291 pl. 49 fig. 285.
1844 *gracilis* Melsheimer p. 148.
1857 Leconte p. 9.
1859 Leconte p. 218.
1873 Leconte p. 331.
1878 Schwarz p. 451.
1882 Horn p. 108.
1882 *gracilis* Mels.=*flavimana* Gory Horn p. 112.
1892 Kerremans p. 120.
1893 Hopkins p. 181.
1895 Hamilton p. 364.
1898 Cockerell p. 157.
1898 Wickham p. 305.
1901 Scott p. 31.
1902 Ulke p. 21.
1903 Knaus p. 175.
1907 Fall-Cockerell p. 179.
1909 Blatchley p. 787.
1909 Smith p. 293.
1913 Manee p. 170.
1920 Knull p. 6.
1922 Knull p. 82.
1925 Good p. 272.

Type locality: North America (exact locality not recorded).
Distribution: New England to Florida, west to Texas and Arizona.
Pennsylvania: Hummelstown VII-4 (c), Philadelphia.
Georgia: Clayton 3700 (4); Macon (10).
Virginia: E. Falls Church V-28 (9).
Louisiana: Vernon Parish (4).
Florida: Capron III-5 (4); Tampa IV-17 (4).
Arizona: Huachuca VII, VIII (1); Pinal Mts. (4); Palmerlee VII (9); St. Rita Mts. VI-12, Cochise Co. VII-5 (c).
Missouri: St. Louis (4).
Kansas: Ft. Scott V-23 (10).
Texas: Fedor (13); Sabinal IV (10); Calvert IV-8 (10); New Boston V-3 (10); Wolff City III-27, Columbus V-24 (4); La Vaca (10); Burnette Co. (10); Dallas V-8 (10).

Indian Territory: Andmore V-3 (10).
Host: Plum *(Prunus sp.)*, Scrub Oak *(Quercus sp.)*, and White Oak *(Q. Alba)*.
Season:

94a. ARIZONAE* new variety

Type locality: Huachuca Mts., Arizona.
Distribution: Arizona, Texas and Missouri.
Arizona: Carr Canyon VIII (17); St. Catalina Mts. VII (10).
Texas: Round Mt. (8).
Missouri: Cliffs (8).
Host: Arizona oak *(Q. arizonica)*.

Genus *AGRILUS* Stephens

1830 Stephens p. 239.
Type of the genus **BUPRESTIS ELATA**, Dejean.

AGRILUS SPP.

1918 Beal p. 15, 21. 1912 Beal p. 16, 62.

95. ABDITUS Horn (9530)

1891 Horn p. 332. 1903 Kerremans p. 281.
Type locality: Western Nevada.
Distribution: Nevada and Arizona.
Arizona: Cochise Co. VII-16 (16).
Host: Unknown.
Season: July.

96. ABDUCTUS Horn (9556)

1891 Horn p. 325. 1903 Kerremans p. 281.
1900 Chittenden p. 67. 1920 Frost and Weiss p. 222.
Type locality: Texas: (exact locality not known).
Distribution: Arizona, Texas and New Mexico.
Texas: Brownsville (16); San Diego (17).
New Mexico: Alamogordo V-20 (17).
Host: Arizona White Oak *(Quercus arizonica)*.

**Agrilaxia flavimana* variety *arizonae* new variety. Form of *flamivana* Gory, but differs as follows: Front and antennae black, not green; tarsi of front pair of legs black not yellow; last ventral segment more angulated, shoulders coppery. Length 7 mm.

A large series would doubtless establish this species distinct by its large size, black antennae and tarsi. I have adapted the name *arizonae* from the fact that Mr. Chas. Schaeffer had applied this name to the species in his cabinet.

97. ABJECTUS Horn (9535)

1891 Horn p. 321.
1903 Kerremans p. 281.

Type locality: Texas (exact locality unknown).
Distribution: Texas and Kansas.
Texas: Davis VII-9 (8); Flotonia VII-30 (8).
Kansas: Onaga (13).
Host: Unknown.

98. ABSTERSUS Horn (9552)

1891 Horn p. 324.
1900 Chittenden p. 67.
1903 Kerremans p. 281.
1920 Frost and Knull p. 222.

Type locality: Southern Arizona.
Distribution: Arizona.
Arizona: Lectotype and Paratypes "Ariz." (17).
Host: Devil's Claw *(Acacia greggii)*.

99. ACUTIPENNIS Mann. (9498)

1837 Mannerheim p. 109.
1837 Dejean p. 93.
1839 *latebrus* Laporte-Gory II, p. 38 pl. 9 fig. 50.
1841 Gory IV p. 225 pl. 37 fig. 216.
1844 Zeigler p. 267.
1844 *quadri-impressa* Zeigler p. 267.
1857 *4-impressa* Lacordaire p. 85.
1857 Leconte p. 9.
1859 *latebrus* L-G, Leconte p. 246.
1840 Gory p. 225.
1873 Crotch p. 93.
1878 Hubbard-Schwarz p. 656.
1885 *quadri-impressus* Zeig.=*acutipennis* Mann. Henshaw p. 131.
1889 Blanchard p. 32.
1891 Horn p. 307.
1892 Kerremans p. 244.
1894 Laurent p. 7.
1894 Harrington p. 11, 15.
1894 Horn p. 378.
1894 Smith p. 189.
1894 Smith p. 323.
1895 Hamilton p. 364.
1900 Chittendon p. 67.
1903 Kerremans p. 269.
1903 *laebus* L.-G., Keremans, p. 269.
1903 *4-impressa* Zieg., Kerremans p. 269.
1906 Felt. p. 701.
1906 Fall p. 168.
1906 Fletcher p. 101.
1909 Blatchley p. 801.
1909 Easton p. 50.
1909 Smith p. 295.
1909 Wickham p. 23.
1912 Frost p. 252.
1917 Nicolay p. 93.
1917 Changon p. 219.
1917bBurke p. 331.
1918 Gibson p. 112.
1919 Nicolay p. 19.
1920 Frost and Weiss p. 210.
1920 Frost p. 28.
1920 Britton p. 244.
1922 Knull p. 84.
1922 Mutchler and Weiss p. 3.

Type locality: "Amer. Sept." (Exact locality not known.)
Distribution:: Southeastern Canada to Florida, west to California.
Canada: Thornhill, Manitoba VI (Wallis); St. Johns, Que. (Fletcher); Ontario (Harrington).
Massachusetts: Tyngsboro (4); Framingham V-20, VI-22 (c).
New York: Bellport, L. I. V-7 (19).
New Jersey: Hewitt (4); Ft. Lee (9); Jamesburg V-27; Hasted V-22; Lakehurst, Woodside and Malaga. Common throughout state (Mutchler-Weiss).
Pennsylvania: Pittsburg (3).
Rhode Island: Watchhill VI-30 (9).
Iowa: Elma (W).
Utah: American Fork Can. (17); Colorado (10).
Kansas (4); Florida (10).
Texas: Hackley (9).
California: Pasadena V (13); Castle Crag VII (13).
Host: Bred from gambel oak *(Quercus gambelii)*. Said to breed in poplar and birch. Taken from foliage of red oak and *Corylus americana*.

100. ADDENDUS Crotch (9519)

1873 Crotch p. 95.
1889 Waterhouse p. 86.
1891 Horn p. 329.
1892 Kerremans p. 244.
1894 Horn p. 329.
1903 Kerremans p. 271.
1907 Fall-Cockerell p. 152, 181.
1909 Blatchley p. 804.
1920 Frost and Weiss p. 223.
1923 Van Dyke p. 40.

Type locality: Texas.
Distribution: Arizona, New Mexico, Texas, Nevada and Lower California, Illinois (Blatchley).
New Mexico: Highrolls V-29 (17); Almogordo IV-29 (17).
Texas: Round Mt. (8); Brownsville VIII (16); New Brunsfels (16).
Arizona:: (17), Nevada (17).
Lower California:: Coral de Piedro (Horn); Sierra el Taste (Horn).
Host: Unknown; taken on peach blossoms (Blatchley).

ADVENA Leconte, See LACUSTRIS Leconte

AELENS Gory, See GRANULATUS Say

101. ANGELICUS Horn (9526)

1891 Horn p. 298.
1895 Fall p. 98.
1901 Fall p. 119.
1903 Kerremans p. 282.
1906 Fall p. 168.
1912 Frost p. 246.
1913 Woodworth p. 195.
1917 Burke p. 330.
1917 Burke pl. VIII fig. 4 pl. IX fig. 1.

1919 Rohwer p. 4.
1920 Frost and Weiss p. 207.
1920 Herbert p. 363.
1920 Burke pp. 379-384.
1922 Mutchler and Weiss p. 7.
1924 Felt p. 186.

Type locality: Santa Cruz Mountains, California.
Distribution: California.
California: Lectotype Los Angeles (17); San Bernardino Mts. 5000 July (5); Deep Creek 6000 ft. (5).
Host: California live oak *(Quercus agrifolia)*, leather oak *(Q durata)*, Wislizenus oak *(Q. wislizeni)*, canyon oak *(Q. chrysolepis)*, Engelmann's oak *(Q. engelmanni)*, Tan bark oak *(Q. densiflora)*, and Calif. black oak *(Q. californica)*.
Season: May-July.

102. ANXIUS Gory (9504)

1837 Dejean p. 93 (no description published).
1841 Gory (Suppl) p. 226 pl. 37 fig. 217.
1848 White p. 36.
1857 Leconte p. 9.
1859 *torpidus* Leconte p. 247.
1859 *gravis* Leconte p. 247
1873 Crotch p. 93.
1874 Austin p. 269.
1878 *torpidus* Hubbard-Schwarz p. 636.
1889 Blanchard p. 32.
1889 Lintner p. 283.
1890 Cook p. 119.
1891 Schwarz p. 74.
1891 *torpidus* Davis p. 66.
1891 Horn p. 306.
1891 Hopkins p. 259.
1892 Kerremans p. 246.
1892 Slosson p. 6.
1892 *torpidus* Davis p. 80.
1893 *torpidus* Cockerell p. 329.
1894 Smith p. 189.
1894 Lintner p. 406.
1895 Evans p. 146.
1896 Bowditch p. 7.
1898 Chittenden p. 44.
1898 Felt p. 993.
1899 Slingerland p. 7.
1899 Wickham pt. 7 p. 236.
1900 Felt pp. 556, 557, 563, 569, 582, 590, 605.
1900 Felt p. 24.
1900 Felt p. 1007.
1900 Chamberlin p. 42.
1900 Chittenden pp. 65, 67.
1901 Felt p. 792, 859.
1902 MacGillivroy-Houghton p. 251.
1903 Evans p. 391.
1903 Kerremans p. 269.
1903 *gravis* Lec. Kerremans p. 285.
1903 Harrington p. 81.
1904 Hopkins p. 21, 38.
1904 Chittenden p. 67.
1905 Felt p. 86.
1905 Felt p. 257, 284.
1906 Slingerland p. 65, 78.
1907 Washburn p. 550.
1908 Washburn (Pres. Bul. 33).
1908 Washburn p. 578.
1909 Blatchley p. 801.
1909 Frost p. 67.
1909 Wickham p. 23.
1909 Smith p. 295.
1909 Felt p. 98.
1910 Davis p. 184.

1910 Burke p. 403 fig. 26.
1910 Gibson p. 13.
1910 Smith p. 348,415.
1911 Gibson p. 246.
1911 Felt pp. 108, 109, 113, 127.
1911 Forbes p. 53, 515.
1912 Felt p. 36.
1911-12-Ruggles p. 57.
1912 Felt p. 101-108.
1912 Sanders p. 22.
1912 Washburn p. 57.
1912 Frost p. 252.
1912 Fernald p. 246.
1913 Fernald p. 85.
1913 Felt p. 101.
1913 Swaine p. 91.
1913 Swaine p. 56.
1914 Swaine p. 54.
1915 Swaine p. 106.
1915 Caesar p. 46.
1916 Blackman-Ellis p. 46.
1916 Hutchings p. 65-70.
1917 Felt p. 49.
1917 Swaine p. 102.
1917 Chagnon p. 219.
1917 Hutchings p. 66-70 plate 1.
1917 Gibson p. 149.
1917bBurke p. 331.
1918 Houser p. 326-327.
1918 Swaine p. 1928.
1918 Turner p. 28.
1919 Swaine p. 46-48.
1920 Hofer p. 9.
1920 Knull p. 10.
1920 Frost and Weiss p. 209.
1920 Holister p. 145.
1920 Frost p. 28.
1920 Frost p. 250.
1920 Hewitt p. 15.
1921 Kotinsky p. 59.
1922 Gossard p. 24.
1922 Knull p. 84.
1922 Lord p. 39.
1922 Mutchler-Weiss p. 4, fig. 1.
1922 Maheux p. 66.
1923 Spicer p. 21.
1923 Pierson p. 51.
1923 Hutchings pp. 89-92.
1923 Felt p. 78.
1923 Britton p. 269.
1923 Maheux p. 66.
1924 Felt p. 52.
1924 Chamberlin p. 193.
1924 Mundinger p. 316.

Type locality: *torpidus* Illinois.

Distribution: Maine to West Virginia, west to Rocky Mountains and Pacific Coast; Canada.

Massachusetts: Boston.

New York: West Point VI-14 (c); N. Y. City V-10 (c); Peekskill (4); Buffalo (4); Poughkeepsie.

Ohio: Cleveland.

Rhode Island: Newport.

New Jersey: Newfoundland VI (4); Hewitt VII (4); quite common over the state (Mutch-Weiss).

Pennsylvania: Spicerville (Knull).

Michigan: Detroit.

Minnesota: Duluth (7);

Iowa: Iiwa City (W).

Illinois: Chicago.

New Mexico: (Morrison) (17); So. California (17).

Colorado: (Hoefer).

Idaho: Cascade VI-22 (c).
Canada: Edmonton, Alberta VI (Gibson).
Hosts: White Birch *(Betula alba)*, yellow birch *(B. lutea)*, black birch *(B. lenta)*, paper bark birch *(B. papyrifera)*, *(B. ulmicola)*, *(B. fruitcosa)*, Mountain birch *(B. frontinalis)*, Aspen *(Populus tremuloides)*, Carolina poplar *(P. deltoides)*, Balm of Gilead *(P. balsamifera)*, *(P. grandidentata)*, and Pecan.

103. ARCUATUS Say (9523)

1825 *Buprestis arcuata* Say p. 249, 251.
1836 Say p. 162.
1841 *cupricollis* Gory (Suppl) p. 240 pl. 40 fig. 232.
1857 *cupricollis* Gory, Leconte p. 9.
1857 Lacordaire p. 84.
1859 Leconte p. 242.
1859 *torquatus* Leconte p. 243.
1859 *fulgens* Leconte p. 243.
1859 *obliquus* Leconte p. 243.
1870 Pettit p. 102.
1873 Crotch p. 92.
1878 Hubbard-Schwarz p. 636, 656.
1883 Leconte p. 387, 596.
1889 *torquatus* Blanchard p. 32.
1891 *cupricollis* Gory, Horn p. 297.
1891 Horn p. 296.
1891 *torquatus* Lec.=*arcuata* Say, Horn p. 287.
1892 Kerremans p. 247.
1894 Stormberg p. 36.
1895 Hamilton p. 364.
1900 Chittenden p. 67.
1902 Ulke p. 21, 47.
1903 *cupricollis* Gory, Kerremans p. 271.
1903 Kerremans p. 271.
1906 Fall p. 168.
1909 Easton p. 50.
1909 Smith p. 295.
1909 Blatchley p. 799.
1909 Wickham p. 23.
1912 Beal p. 47.
1916 Frost p. 386.
1917 Chagnon p. 219.
1918 var. *torquatus* Ruggles p. 15.
1919 *cupricollis* Gory, Blatchley p. 29.
1920 Knull p. 10.
1920 Frost & Weiss p. 206.
1920 Frost p. 28.
1920 var. *obliquus* Say Britton p. 244.
1920 Briton p. 244.
1922 Knull p. 85.
1922 Mutchler-Weiss p. 5 fig. 2.
1924 Brooks p. 73.

Type locality: Indiana.
Distribution: Canada to Florida, west to Montana and California.
Maine: Paris VII-9 (14).
Massachusetts: Lowell VII (17); Shelborn VI-9 (14); Ashland VI (c); Tyngsboro VII-3 (13).
New York: Buffalo (4); Yaphank, L. I. VII (19); Bayshore VII (19).
New Jersey: Lakehurst VII-4 (4); Jamesbury VII (4); Hewett VII (4); Cramar Hill V-30 (9); Westville; De Costa VII-28 (M & W).
Pennsylvania: Manada Gap VII-18; Harrisburg V-31; Hummelstown VI-7 (Knull).

Virginia: Pennigton Gap (10).
Georgia: Clayton 3000 ft. VI (4).
Florida: Enterprise (4); Miami (4); Tampa IV-2 (10); Gainsville V-19 (11).
Illinois: Edgebrook VII-1 (0).
Ohio: Cincinnati V-15 (11).
Iowa: Iowa City (W); Fairfax (W).
Montana (17), Illinois (17), Michigan (17), Kansas (17).
California: Pasadena (10); Palo Alto (10).
Host: Red oak *(Quercus rubra)*, elm *(Ulmus sp.)* Hazel *(Corylus americanus)*,*(C. rostratus)*, California live oak *(Q. agrifolia)*, California black oak *(Q. californica)*, *(Q. velutina)*, beech *(Fagus americana)*, and shagbark hickory *(Hickoria ovata)*.

103a. Variety CORYLI Horn

1889 Blanchard p. 32.
1891 Horn p. 297.
1895 Hamilton p. 364.
1900 Chittenden p. 67.
1906 Felt p. 723.
1909 Blatchley p. 799.
1916 Frost p. 386.
1918 *politus* var. *coryli* Gibson p. 112.
1919 Nicolay p. 19.
1920 Frost & Weiss p. 206-207.
1920 Frost p. 28.
1925 Champlain & Knull p. 113.

Type locality: Massachusetts.
Distribution: Massachusetts, New York, Pennsylvania, Indiana and Manitoba.
New York: Wyandauch VIII-21 (19).
Pennsylvania: Throughout the state (Knull).
Massachusetts: Paratype "Mass." (17); Sheaburn VI-21 (c).
Connecticut: Lyme.
Illinois: LaGrange VII-28 (c); Riverside VIII-1 (c).
Manitoba: Dangleford (Wallis).
Host:: Hazel *(Corylus americanus)*.

104. AUDAX Horn (9549)

1891 Horn p. 300.
1903 Wickham p. 70.
1903 Kerremans p. 282.
1918 Fisher p. 68.

Type locality: Texas.
Distribution: Adizona, Texas and Illinois.
Texas: Lectotype and Paratype "Tex." (17); Kerrville IV-12 (10).
Illinois: (4).

105. AUREUS Cheverlot (9496)

1837 Cheverlot p. 98.
1866 *couesii* Leconte p. 348, 384.
1873 *couesii* Lec.=*aureus* Chev., Leconte p. 333.
1873 *cousii* Lec., Crotch p. 94.
1891 *couesii* Lec., Horn p. 309.
1892 Kerremans p. 247.
1897 *couesii* Lec., Cockerell p. 150.
1900 *couesii* Lec., Chittenden p. 65-67.
1903 *couesii* Lec.=*aureus* Chev., Kerremans p. 269.
1905 *couesii* Schaeffer p. 131.
1906 *couesii* Lec. Fall p. 168.
1907 *couesii* Fall-Cockerell p. 180.
1920 *couesii* Frost and Weiss p. 210.

Type locality: Santa Fe, New Mexico *(couesii)*, Mexico.
Distribution: Arizona, New Mexico.
New Mexico: Santa Fe (c); Albuquerque (16); Ft. Wingate IX (4); Jemez Mts. 7500 ft. (8).
Host: Taken on *Mentzelia nuda*.

106. AURICOMUS Frost. (9497)

1912 Frost p. 250-251.
1920 Frost & Weiss p. 210.
1920 Frost p. 28.
1920 Frost p. 250.
1920 Britton p. 244.

Type locality: Framingham, Massachusetts.
Distribution: Massachusetts, Connecticut and Pennsylvania.
Connecticut: Lyme V-29; New Haven VI-12.
Pennsylvania: Castle Rock VI-4 (Green).
Massachusetts: Sherborn (Frost); Hubbardstown (Frost).
Host: Red oak *(Quercus rubra)*.

107. AUROGUTTATUS Schaefer. (9492)

1905 Schaeffer p. 149.
1920 Frost & Weiss p. 208.

Type locality: Palmarlee, Huachuca Mts. Arizona.
Distribution: Arizona.
Arizona: Palmarlee, Cochise Co. VII-26 (c); Santa Rita Mts. VII-1 (c).
Host: Black oak *(Quercus velutinus)*.
Season:: July-August.

AUROLINEATUS Gory, See BILINEATUS Weber

AZUREUS Knull, See CARPINI Knull

BIGUTTATUS Gory, See GRANULATUS Say

108. BILINEATUS Weber (9491)

1801 *Buprestis* Weber p. 74.
1802 *Buprestis* Illiger p. 248.
1817 *Buprestis* Schonherr p. 213.
1825 *Buprestis* Say p. 249, 250.
1836 *Buprestis* Say p. 162.
1837 Dejean p. 93.
1837 *bivittatus* Kirby p. 161.
1837 *flavolineatus* Mannerheim p. 110.
1840 Erichson p. 240.
1841 *aurolineatus* Gory (Suppl.) p. 241, 248 pl. 41 fig. 240.
1848 *bivittatus* Kby., White p. 38.
1857 *aurolineatus* Gory=*bilineatus* Web., Leconte p. 9.
1857 *bivittatus* Kby. Lacordaire p. 84.
1859 Leconte p. 245.
1866 Leconte p. 384.
1870 Pettit p. 102.
1872 *bivittatus* Kby., Bethume p. 35.
1873 Crotch p. 93.
1877 Provancher p. 360.
1878 Hubbard-Schwarz p. 636, 656.
1878 Glover pl. XX fig. 16.
1880 Zesch-Reinecke p. VII.
1883 Leconte p. 386, 596.
1884 Harrington p. 102.
1885 Harrington p. 31.
1889 Tolman p. 343.
1889 Chittenden p. 221.
1889 Blanchard p. 32.
1890 Packard p. 222.
1891 Horn p. 301.
1891 Hopkins p. 257.
1891 Hopkins p. 82.
1893 Chittenden p. 95.
1893 Hopkins p. 181.
1893 Hamilton p. 274.
1893 Townsend p. 202.
1894 Hopkins p. 145.
1894 Hopkins p. 251.
1895 Hamilton p. 364.
1896 Johnson p. 345-364.
1896 Hopkins p. 246.
1896 Hopkins p. 130-131.
1897 Harrington p. 70-71.
1897 Chittenden p. 1-8 fig. 1.
1897 Chittenden p. 67-71.
1898 Hopkins p. 103, 108.
1899 Harris p. 414.
1899 Hopkins p. 437.
1899 Hopkins p. 254-255.
1899 Lugger p. 145.
1899 Lugger p. 61.
1900 Chittenden p. 66-67.
1900 Moffatt p. 100.
1902 Chittenden p. 732.
1902 Ulke pp. 21, 47.
1903 Kerremans p. 269.
1903 *bivittatus* Kby., Kerremans p. 269.
1903 *flavolineatus* Man., Kerremans p. 269.
1903 *aurolineatus* Gory, Kerremans p. 269.
1903 Hopkins p. 321.
1904 Chittenden cir. 24, p. 1.
1904 Pettit p. 24.
1904 Hopkins p. 38.
1905 Felt p. 257, 280.
1906 Fall p. 168.
1906 Washburn p. 515.
1907 Harrington p. 70.
1907 Hopkins p. 99.
1908 Washburn p. 574-578.
1909 Smith p. 295.
1909 Wickham p. 23.
1909 Blatchley p. 800.
1909 Easton p. 50.
1909 Felt p. 106.
1910 Burke p. 401 fig. 25.
1910 Smith p. 348.

1910 Gibson p. 100.
1911 Metcalf-Collins p. 10.
1911 Felt p. 113-114.
1911-12 Ruggles p. 55.
1912 Frost p. 252.
1912 Beal p. 47.
1912 Washburn p. 55.
1913 Manee p. 170.
1914 Burgess p. 5.
1914 Howard p. 11.
1914 Ruggles p. 54.
1914 Anderson-Rankin p. 586.
1914 Felt p. 373.
1914 Britton p. 250.
1915 Chapman p. 283 plate.
1915 Beal p. 7.
1915 Felt p. 29.
1916 Felt p. 71, 89.
1917 Chagnon p. 214.
1917 Morris p. 22.
1917 Burke p. 3 pl. VI fig. 2.
1919 Nicolay p. 19.
1919 Morris p. 52.
1920 Chapman p. 176.
1920 Frost-Weiss p. 207.
1920 Knull p. 10.
1920 Britton p. 244.
1920 Weiss & West p. 3.
1921 Kotinsky p. 61.
1922 Knull p. 83.
1922 Mutchler & Weiss p. 7-8, fig 4 and 5.
1924 Felt p. 53.

Type locality: North America (exact locality not known).
Distribution: Southern Canada, Maine to Georgia, west to Wisconsin, Iowa and Texas. A very common species the detailed distribution of which it is not necessary to set forth here.
Hosts: White oak *(Quercus alba)*, red oak *(Q. rubra)*, black oak *(Q. velutina)*, scarlet oak *(Q. coccinea)*, bur oak *(Q. macrocarpa)*, chestnut *(Castenea dentata)*, and beech *(Fagas sp.)*.

108a. CARPINI Knull

1922 *azureus* Knull p. 84.
1923 Knull *A. carpini* n. n. for *A. azureus* p. 105.
Type locality: Philadelphia (June) (Knull).
Hosts: :Blue Beech *(Carpinus caroliniana)* and *Fagus Americana*.

BIVITTATUS Kirby, See BILINEATUS Weber

BLANCHARDI Horn, See HORNI Kerremans

109. BLANDUS Horn (9534)

1891 Horn p. 321.
1901 Fall p. 120.
1903 Wickham p. 70.
1903 Kerremans p. 272.
1913 Woodworth p. 195.

Type locality: Tehachepi, California.
Distribution: Southern California, Utah and Arizona.
California: Lectotype and Paratypes; Tehachapi, Cal. (17); Pasadena VI-VII (5); Azusa (9).
Utah: (1); Virginia River (4).
Ariozna: Prescott (9).

110. BURKEI Fisher (9543)

1917 Fisher p. 287.
1917 Burke (under *Agrilus sp.)* p. 331.
1922 Frost & Weiss p. 221.
1922 Frost p. 96.
1924 Chamberlin p. 194.

Type locality: Placerville, California.
Distribution: California, Oregon, New Mexico, Colorado and Victoria, B. C. (4).
Hosts: White alder *(Alnus rhombifolia)*, paper-leaf alder *(A. tunuifolia)*.
Season: April-July.

CANADENSIS Obenberger, See POLITUS Say

111. CAVATUS Chevrolat (9489)

1835 Chevrolat p. 99 No. 142.
1859 Lacordaire p. 85.
1873 *texanus* Crotch p. 94.
1887 *texanus* Cr.=*cavatus* Chev., Horn p. 145.
1889 Waterhouse p. 69.
1891 Horn p. 310.
1891 Duges p. 22.
1903 Kerremans p. 268.
1903 *texanus* Cr. Kerremans p. 268
1906 Fall p. 168.

Type locality: Mexico.
Distribution: Florida, Texas, Arizona and Mexico.
Texas: New Brunsfels (1); Flotonia VII-30 (8); Fedor (3); Bethage V-7 (9).
Arizona: Pinal Mts. (9); Nogales VIII-31 (16).
Mexico: Sonora, Cerro de Plumas, Almotonga, Guerrero, Cordova, Vera Cruz and Jalapa.
Host: Unknown.

112. CELTI Knull

1920 Knull p. 11.
1920 Frost & Weiss p. 223.
1921 Nicolay p. 175.
1922 Knull p. 85.

Type locality: Hummelstown, Pennsylvania.
Host: Hackberry *(Celtis Occidentalis)*.

CEPHALICUS Lec., a Var. of EGENUS Gory

113. CHAMPLAINI Frost (9528)

1912 Frost p. 245.
1912 Britton p. 291.
1920 Frost & Weiss p. 207.
1920 Frost p. 249.
1920 Britton p. 244.
1922 Knull p. 85.

Type locality: Linn Co., Connecticut.
Distribution: Connecticut and Pennsylvania.
Pennsylvania: Drumgold; Charter Oak; York Co.; Cedar Run.
Host: Hop-hornbeam *(Ostraya virginica)*.

*CHRYSEIS Curtis, See SINNATUS Oliver

114. †COERULEUS Rossi

1922 Frost p. 96.

115. CONCINNUS Horn (9488)

1891 Horn p. 310.
1903 Kerremans p. 283.
1920 Blatchley p. 262.

Type locality: Georgia.
Distribution: Georgia, Florida and Texas.
Florida: Jacksonville V-16 (17); Cotype "Florida" (17); Dunedinn IV-11 (Blatch).
Texas: Brownsville VI (16).
Hosts: Unknown.

COUESII Leconte, See AUREUS Chevrolat

CORYLI Horn, a Variety of ARCUATUS Say

116. CRATAEGI Frost (9541)

1912 Frost p. 247.
1915 Kwiat p. 237.
1920 Frost p. 251.
1920 Frost & Weiss p. 222.

Type locality: Chinchilla, Pennsylvania.
Distribution: Pennsylvania, Wisconsin, Illinois and Virginia.
Pennsylvania: Highspire, Harrisburg, bred from *Crataegus* III-11, IV-6 (14); Charter Oak (Knull).
Illinois: Edgebrook VI-8; Riverside VI-26 (c).
Virginia: (Frost).
Host: *Crataegus*.

117. CRIDDLEI Frost

1920 Frost p. 249.
1921 Nicolay p. 175.

Type locality: Awene, Manitoba, Canada.
Distribution: Ontario, Quebec and Manitoba.

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*Not reported from North America.

†A European species recently introduced, taken at Sturgeon Bay, Wisconsin, and at Sherborn, Mass. In Europe it is found in Germany, France, Spain, Portugal and Italy on oak beech, birch and alder.

118. CRINICORNIS Horn (9518)

1891 Horn p. 294.
1903 Kerremans p. 283.
1909 Blatchley p. 798.
1915 Kwiat p. 237.
1915 Frost p. 144.
1915 Weiss p. 101.
1920 Frost & Weiss p. 206.
1920 Frost p. 28.
1922 Knull p. 84.
1922 Mutchler-Weiss p. 15.

Type locality: Massachusetts.
Distribution: New Jersey, Massachusetts, Pennsylvania, Virginia, Ohio, Indiana and Illinois.
Host: Taken on leaves of red raspberry.
Season: May-June.

CUNEUS Leconte, See LACUSTRIS Leconte

119. CUPREOMACULATUS Duges

1891 Duges p. 30.
1926 Mason p. 85.

Type locality: Tupa Taro, Guanajuato, Mexico.
Distribution:: Mexico, Arizona (Buboquivari Mts.) (17).

CUPRICOLLIS Gory (9524), See ARCUATUS Say

CUPREOLUS Leconte, See POLITUS Say

DEFECTUS Leconte (9517), See OTIOSUS Say

DESERTUS Leconte, See POLITUS Say

120. DIFFICILIS Gory (9499)

1837 Dejean p. 93 (no description)
1839 Gory IV, p. 224 pl. 37 fig. 215
1855 *occidentalis* Uhler p. 416.
1857 *occidentalis* Uhler=*difficilis* Gory, Leconte p. 9.
1859 Leconte p. 244.
1873 Crotch p. 92.
1878 Hubbard-Schwarz p. 656.
1891 Horn p. 287.
1892 Kerremans p. 255.
1896 Hamilton p. 263.
1900 Chittenden p. 67.
1903 Kerremans p. 269.
1903 *ocidentalis* Uhl., Kerremans p. 269.
1909 Blatchley p. 797.
1920 Frost & Weiss p. 204.
1925 Champlain & Knull p. 113.

Type locality: North America.
Distribution: Mississippi Valley, Michigan to Texas.
Michigan; Ohio, Cincinnati (11); Iowa (17); Kentucky (16); Missouri (10); Tennessee: Elmwood (13); Louisiana (16).
Texas: Fedor (4); Dallas (11).
Host: Willow *(Salix sp.)*, honey locust*(Gleditschia triacanthos)*.

121. DOLLII Schaeffer (9546)

1904 Schaeffer p. 210.
Type locality: Brownsville, Texas.
Distribution: Texas and Arizona.
Arizona: Huachuca VII, VIII (1).

122. DOZIERI Fisher

1918 Fisher p. 67.
1920 Frost & Weiss p. 207.
1921 Nicolay p. 175.
Type locality: Gainsville, Florida.
Distribution: Florida (Gainsville, Archer and Enterprise).
Host: On leaves of Blue beech *(Ostrya virginiana)*.
Season: March-April.

123. EGENIFORMIS Champ. and Knull

1923 Champlain and Knull p. 84-85.
Type locality:: Missouri ("Mo.").
Distribution: Missouri; Nebraska, June (West Point); Oklahoma (Lawton).

124. EGENUS Gory (9520)

1837 Dejean p. 93 (no description)
1841 Gory p. 258 pl. 43 fig. 251.
1857 Leconte p. 9.
1859 Leconte p. 249.
1863 Leconte p. 82.
1869 Glover p. 91.
1871 Glover p. 67.
1871 Glover p. 65.
1878 Hubbard-Schwarz p. 636, 656.
1880 Zesch-Reinicke p. VII.
1883 Harrington p. 80.
1884 Harrington p. 102.
1884 Harirngton p. 36, 45.
1885 Harrington p. 31.
1889 Chittenden p. 219 .
1889 Blanchard p. 32.
1890 Packard p. 291, 372.
1891 Schwarz p. 74.
1891 Horn p. 331.
1892 Kerremans p. 255.
1893 Hopkins p. 184.
1895 Hamilton p. 364.
1898 Cockerell p. 252.
1900 Chittenden p. 67.
1902-McGillivroy-Houghton p. 251.
1902 Ulke p. 21, 47.
1903 Kerremans p. 271.
1903 Knaus p. 176.
1906 Felt p. 715, 729.
1907 Fall-Cockerell p. 181.
1908 Houghton p. 162.
1908 McAtee p. 26.
1909 Smith p. 295.
1909 Blatchley p. 804.
1912 Beal p. 54.
1913 Manee p. 170.
1915 Johnson p. 312.
1915 Garmen p. 32-63.
1916 Garmen p. 124.
1917 Chagnon p. 219.
1919 Nicolay p. 19.
1920 Britton p. 244.

1920 Knull p. 11.
1920 Rosewall p. 203.
1920 Frost & Weiss p. 223.
1922 Mutchler & Weiss p. 8.
1922 Knull p. 85.
1925 Chapin p. 33.

Type locality: North America.

Distribution: Connecticut to North Carolina, west to Indiana, Missouri, Kansas, Nebraska, Arizona and Texas. Also reported from Canada.

Common on Long Island on scrub oak, May to Aug. (19); Stanton Island, N. Y. (4); Framingham, Mass. VI-10 (14); Chiricahua Mts., Arizona VI-2 (10); Dallas, Texas (4); Riverside, Illinois VIII-3 (c); Gallinas Can., N. M. (24).

Pennsylvania: Harrisburg (Knull); Highspire V-29 (c).

New Jersey: Found over the state. Late May and June (M. & W.).

Maryland: Plummers Island VI-15 (c).

No. Carolina: Asheville VI-12 (c).

Iowa: Iowa City VI-25 (c).

West Virginia: White Sulphur VII-13 (c).

Host:: Breeds in White hickory *(Hickoria alba)*, Virginia creeper and yellow locust *(Robinia pseudacacia)* and *(R. neomexicana)*. Adults feed on leaves of the hosts.

124a. Variety CEPHALICUS Leconte (9522)

1859 Leconte p. 249.
1892 Kerremans p. 250.
1903 Kerremans p. 283.
1912 Frost (redescribed) p. 248.
1918 Gibson p. 112.
1920 Knull p. 10.
1920 Britton p. 244.
1920 Frost p. 28.
1920 Frost & Weiss p. 210.
1922 Knull p. 85.
1922 Mutchler & Weiss p. 8.

Type locality: "Lake Superior Region."

Distribution: Manitoba (Gibson), Maine, Connecticut, Pennsylvania, Indiana and Illinois.

Pennsylvania: York, Reading, Hummelstown, Harrisburg (Knull).

New Jersey: New Brunswick VI-15 (Nicolay).

Hast: Hazel *(Carylus americana)* and Dogwood *(Cornus florida)*.

Season: May-July.

124b. Variety PUNCTICEPS Leconte (9521)

1859 Leconte p. 249.
1880 Zesch-Renicke p. VII.
1903 Kerremans p. 283.
1912 Frost p. 249.

Type locality: Massachusetts.

Distribution: Massachusetts, Connecticut.

Host: Black locust *(Gleditschia triacanthos)*.

124c. Var. GEMINATUS Say

1836 *Buprestis geminatus* Say p. 162.
1842 *nigricans* Gory (suppl.) p. 257 pl. 43, p. 250.
1857 Leconte p. 9.
1857 Lacordaire p. 84.
1873 *nigricans* Gory. Leconte p. 332.

Type locality: Indiana.
Distribution: Wisconsin.
Host: Unknown.

1873 *geminatus* Say—*otiosus* Say, Crotch p. 92.
1883 Leconte p. 595.
1891 *germinata* Say=*otiosus* Say, Horn p. 287.
1892 Kerremans p. 259.

125. FALLAX Say (9531)

1836 Say p. 163.
1841 *zemes* Gory (suppl), p. 234 pl 39 fig. 225.
1855 *impressipennis* Uhler p. 416.
1857 Lacordaire p. 84.
1857 *zemes* Gory, Leconte p. 9.
1859 Leconte p. 246.
1873 *zemes* (male) Gory= *quadriguttatus* (female) Gory, Leconte p. 332.
1873 Crotch p. 93.
1880 Zesch-Reinecke p. VII.
1883 Leconte p. 596.
1891 Davis p. 67.
1891 Horn p. 316.
1892 Hopkins p. 256.
1892 Kerremans p. 256.
1893 Hopkins p. 184.
1894 Stormberg p. 36.
1895 Hamilton p. 364.
1897 Evans p. 321.
1900 Chittenden p. 67.
1902 Ulke p. 21.
1903 Kerremans p. 272.
1903 *impressipennis* Uhler, Kerremans p. 272.
1906 Felt. p. 725, 746.
1908 Houghton p. 160.
1909 Blatchley p. 802.
1909 Wickham p. 23.
1909 Smith p. 295.
1912 Frost p. 252.
1917 Chagnon p. 219.
1920 Knull p. 10.
1920 Frost & Weiss p. 222.
1922 Knull p. 85.
1922 Mutchler & Weiss p. 8.

Type locality:: Indiana.
Distribution: (Canada to Louisiana and Texas, west to Nebraska, Horn p. 317), Delaware, New York, New Jersey, Pennsylvania, West Virginia, Iowa, Indiana, Missouri and Florida.
New York: Long Island (4).
New Jersey: Anglesea VI-1 (8); Camden and Gloucester Counties, rare (M. & W.).
Pennsylvania: Philadelphia V-30 (8); Jannette (13); New Cumberland and Rockville.
Kansas: Baldwin VI-2 (0).

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Missouri: St. Louis (8).
Florida: Marianna IV-25, VI-12 (14).
Iowa: Iiwa City (W); Fairfax (W); Waterloo (W).
Hosts: Hackberry *(Celtis occidentalis)*, Honey locust *(Robina pseudocacia)*, black locust *(Gledischia triacanthos)*. Also reported from cottonwood and oak.
Season: June (Illinois).

FAGI Ratzeburg, a Variety of VIRIDIS Fab.

126. FELIX Horn (9557)

1891 Horn p. 326.
1894 Horn p. 328.
1900 Chittenden p. 67.
1900 Griffith p. 568.
1903 Kerremans p. 285.
1905 Schaeffer p. 131.
1920 Frost & Weiss p. 223.

Type locality: Tucson, Arizona.
Distribution: Arizona, Colorado, Utah and Lower California.
Arizona: Tucson, Serritas, Alt. 3750 ft.; Ash Fork VI-17 (9); Prescott (9); Phoenix (1); Nogalis VIII-31, X-3 (16); Huachuca Mts. VII (1).
Lower California: San Julio.
Colorado: Glenwood Springs (13).
Utah: St. George (9).
Host: Palo verde *(Parkinsonia microphylla)*.

127. FERRISI Dury (9500)

1908 Dury p. 368.
1909 Blatchley p. 798.
1920 Frost & Weiss p. 204.

Type locality: Cincinnati, Ohio.
Distribution: Indiana, Ohio, Kentucky and Iowa.
Indiana: (Blatchley).
Iowa: Ames (c).
Kentucky: Louisville (16).
Host: Hackberry *(Celtis occidentalis)*.
Season: June-July.

FLAVOLINEATUS Mannerheim, See BILINEATUS Weber

128. FLORIDANUS Crotch (9545)

1873 Crotch p. 94.
1878 Schwarz p. 452.
1891 Horn p. 328.
1900 Chittenden p. 67.
1919 Blatchley p. 29.
1920 Frost and Weiss p. 223.

Type locality: Florida.
Distribution: Florida.
Host: Oak *(Quercus sp.)*.

FRENATUS Gory, See VITTATICOLLIS Randell

129. FROSTI Knull

1920 Knull p. 8.
1920 Frost & Weiss p. 206.
1921 Nicolay p. 175.
1922 Knull p. 84.
1925 Fall p. 182.

Type locality: Framingham, Mass. V-25.
Distribution: Pennsylvania and Massachusetts.
Host: Taken on leaves of oak and hickory.

130. FULGENS Leconte (9523b)

1859 Leconte p. 243.
1873 Crotch p. 92.
1889 Blanchard p. 32.
1890-Riley-Howard p. 348.
1895 Harrington p. 31.
1915 Kwiat p. 237.

Type locality: Missouri.
Distribution: Lake Superior to Missouri.
Host: Hazel *(Corylus americana)*. On maple.

131. FUSCIPENNIS Gory (9502)

1841 Gory IV p. 238 pl. 39 fig. 230.
1857 Leconte p. 9.
1859 Leconte p. 242.
1873 Crotch p. 92.
1891 Horn p. 289.
1903 Kerremans p. 285
1912 Leng. p. 298.

Type locality: "United States" (probably Georgia).
Distribution: Tennessee, Georgia and North Carolina.
North Carolina: Tyron (10).
Host: Sourwood *(Oxydendrum arboreum)*.

132. GIBBICOLLIS Fall (9555)

1901 Fall p. 241.
Type locality: Southern California "San Bernardino."
Type in Fenyes Collection.

GEMINATUS Say, a Variety of EGENUS Gory

133. GRANULATUS Say (9551)

1823 *Buprestis granulatus* Say p. 162.
1836 *Buprestis* Say p. 162.
1837 Dejean p. 93.
1841 *quadriguttatus* Gory (Suppl) p. 228 pl. 39 fig. 219.
1841 *aleus* Gory (Suppl) p. 234, 250.
1841 *biguttatus* Gory p. 24.
1857 *quadriguttatus* Gory, Leconte p. 9.
1859 Leconte p. 245.
1859 *quadriguttatus* Leconte p. 245.
1873 *biguttatus* Gory=*granulatus* Say, Crotch p. 93.
1873 *zemes* Gory=*granulatus* Say, Crotch p. 93.
1873 Crotch p. 93.
1883 Leconte p. 596.
1883 Burrill p. 121.
1889 Blanchard p. 32.
1890 Packard p. 443-444.
1891 Horn p. 302.
1892 *quadriguttatus* Gory=*zemes* Gory, Kerremans p. 270.
1895 Hamilton p. 364.
1895 Evans p. 146.
1899 Harris p. 411..
1900 Chittenden p. 67.
1902 Ulke p. 21, 47.
1903 Kerremans p. 273.
1906 Felt p. 746.
1908 Gibson p. 125.
1909 Smith p. 295.
1909 Blatchley p. 801.
1913 Manee p. 171.
1917bBurke p. 330.
1920 Frost & Weiss p. 208.
1922 Knull p. 86.
1922 Mutchler & Weiss p. 8.

Type locality: Indiana?

Distribution: New England to Carolina, west to Montana, Idaho and Colorado.

Massachusetts: Fall River (9).

New York: Rockland Co (4); Stanton Island (4).

New Jersey: Gloucester VII (19); Boonton VII-4; Cramer Hill VI-19 (M-W).

Pennsylvania: Philadelphia (2); Abington (2); Fox Chase VII-28 (8); Swarthmore VII-8 (c); Marysville (Knull).

Mrayland: Plummer's Island VI-21 (c).

Wisconsin: Bayfield (1).

Colorado: Littleton VI-24 (14).

Host: Lombardy poplar *(Populus nigra-italica)*, black cottonwood *(Populus trichocarpa)*, Carolina poplar *(P. deltoides)*, black alder *(Alnus nigra)*, willow *(Salix sp.)*.

Season: June-July.

GRAVIS Leconte, See ANXIUS Gory

134. HORNI Kerremans (9503)

1891 *blanchardi* Horn p. 305-6.
1900 *horni* n.n. for *blanchardi* Horn (name preoccupied), Kerremans p. 341.
1903 Kerremans p. 285.
1909 Frost p. 67.
1917 Chagnon p. 218.
1920 Britton p. 244.

Type locality: Tyngsboro, Massachusetts.
Distribution: Ontario to New York, west to Lake Superior Region.
Ontario: Calandar VII-19 (c).
Massachusetts: Lectotype, Tyngsboro (17); Framingham VII-27.
Illinois: La Grange VII-11 (2).
Host: Not reported.
Season: July.

135. HUACHUCAE Schaeffer (9525)

1905 Schaeffer p. 150.

Type locality: Ramsey Canyon, Huachuca Mts., Arizona.
Distribution: Cochise Co., Arizona.
Arizona: Ramsey Canyon (16); Palmerlee VIII-2 (c).
Host: Unknown.
Season: July-August.

*ILLICTUS Fall, See JACOBINUS Horn

136. IMBELLIS Crotch (9529)

1873 Crotch p. 94.
1878 Schwarz p. 452.
1889 Blanchard p. 29,32.
1891 Horn p. 332.
1900 Chittenden p. 68.
1903 Kerremans p. 271, 286.
1909 Easton p. 50.
1909 Smith p. 295.
1919 Nicolay p. 20.
1920 Frost and Weiss p. 223.
1922 Knull p. 85.
1922 Mutchler-Weiss p. 9.

Type locality: Florida.
Distribution: New England to Florida, Manitoba to Texas, Arizona and Lower California.
Massachusetts: Nantucket Island (4); Saugus VIII-22 (14).
New York: Yaphank and Queens VI-VII (19).
New Jersey: Spotswood (4); Clementon V-30 (2); Westville VI-14 (c); West Berlin VI-25; Acto VI-17, Da Costa VI-3 (M-W).

**Illictus* is probably a distinct species.

Maryland: Blandsburg VI-6 (10).
Virginia: Pennington Gap VII-2 (10); Falls Church (10).
Florida: Type "Fla." (17); Leve Co. (8); Miami (1); Tampa (4); St. Augustine VI-10 (2).
Lower California: El Taste (1).
Arizona: Williams VII-27 (4).
Host: Bred from Yellow locust *(Robinna pseudocacia)* and taken on sunflower *(Helianthemum canadenses)*.
Season: June-August.

137. IMPEXUS Horn (9544)

1891 Horn p. 327.
1894 Stormberg p. 36.
1900 Chittenden p. 68.
1903 Kerremans p. 272.
1920 Frost & Weiss p. 223.

Type locality: Arkansas.
Distribution: Illinois, Arkansas, Nebraska, to Texas and Arizona.
Nebraska: Lectotype "Neb." (17).
Kansas: Onaga (1); Dickinson Co. VIII (O).
Arkansas: Paratype "Ark." (17), Dickinson Co.
Texas: Alpine VI-23 (2).
Arizona: Catalina Springs (10).
Host: Honey locust *(Robinia pseudocacia)*, black locust *(Gleditschia triacanthos)*.
Season: July-August.

IMPRESSIPENNIS Uhler, See FALLAX Say

INEPTUS Horn, See INHABILIS Kerremans

138. INHABILIS Kerremans (9493)

1894 *ineptus* Horn p. 328, 378.
1900 *inhabilis* n. n. for *ineptus* Horn (name preoccupied) Kerremans p. 341.
1903 Kerremans p. 286.
1904 *ineptus* Horn, Schaeffer p. 211.

Type locality: Sierra El Taste, Bajo, California.
Distribution: Kansas?, Lower (Bajo) California (Coral de Piedra, Sierra El Taste, Pescadero and Santa Rosa).
Host: Unknown.

INTERRUPTUS Leconte, See OBSOLETOGUTTATUS Gory

139. JACOBINUS Horn (9538)

1891 Horn p. 314.
1901 Fall p. 120.
1901 *illectus* Fall p. 120.
1903 Kerremans p. 286.
1903 *illectus* Fall, Kerremans p. 272.
1907 *illectus* Fall=*jacobinus* Horn, Fall p. 176.
1913 *illectus* Woodworth p. 195.

Type locality: San Diego, California.
Distribution: Southern California.
So. California: Clearmont (16); Pomona (5); Pasadena VI, VII (5); Palm Springs IV (13); San Diego VIII-13 (4).
Host: Unknown.

140. JUGLANDIS Knull

1920 Knull p. 7.
1920 Frost & Weiss p. 206.
1920 Britton p. 244.
1921 Nicolay p. 175.
1922 Knull p. 85.
1925 Fall p. 182.

Type locality: Hummelstown, Pa. (VI-9).
Distribution: Pennsylvania and Connecticut.
Host: Butternut *(Juglans cinerea)*.

KNAUSII Schaeffer, See OBOLINUS Leconte

141. LACUSTRIS Leconte (9508)

1850 Leconte p. 227.
1850 *advena* Leconte p. 227.
1859 Leconte p 250.
1866 *cuneus* Leconte p. 384.
1870 Pettit p. 102.
1873 *pubiventnris* (name preoccupied) Crotch p. 95.
1878 Hubbard-Schwarz p. 636.
1891 Horn p. 330.
1892 Kerremans p. 261.
1894 var. *cuneus* Lec., Horn p. 328.
1900 Chittenden p. 67.
1907 Fall-Cockerell p. 181.
1909 Blatchley p. 804.
1913 Woodworth p. 195.
1920 Frost & Weiss p. 223.
1925 Champlain & Knull p. 469.

Type locality: Lake Superior Region.
Distribution: Lake Superior Region to Kansas, New Jersey to Florida.
New Jersey: De Costa V-29 (2).
Kansas: Douglas Co. 900 ft. (4); McPherson (Knaus).
Florida: St. Augustine (2).
Arizona: Williams (16); Cochise Co. VII (16).
New Mexico: Santa Fe (13); Thornton VIII (13).
Texas: Beeville V-19 (10); Columbus VII-23 (10); Flotonia VII-30 (8); Fedor V (3), VI (2); Brownsville (8); Lurling (1).

California: Del Rio (14); Newhall (5).
Lower California: Santa Rosa (1).
Host: Bred from *(Croton sleagnifolium)*, *(Croton capitanum)* and taken on white oak *(Quercus alba)*.

LATEBRUS Laporte-Gory, See ACUTEPENNIS Mannerheim

142. LATERALIS Say (9514)

1823 Say p 169.
1836 Say p. 162.
1857 Lacordaire p. 84.
1871 *sayi* Saunders p. 126.
1876 Thomas p. 114.
1883 Leconte p. 596.
1891 Horn p. 290.
1891 *sayi* Saunders=*lateralis* Say, Horn p. 287.
1892 Kerremans p. 262.
1900 Chittenden p. 68.
1903 Kerremans p. 287.
1903 *sayi* Saund. Kerremans p. 287
1905 Schaeffer p. 150.
1907 Fall-Cockerell p. 180.
1909 Blatchley p. 798.
1909 Smith p. 294.
1912 Gibson p. 14.
1913 Gibson p. 126.
1915 Somes p. 14.
1915 Johnson p. 312.
1919 Nicolay p. 19.
1920 Frost p. 249.
1920 Britton p. 244.
1922 Fisher p. 124-125.
1922 Mutchler-Weiss p. 9.
1922 Knull p. 84.

Type locality: "Lake Superior Region."
Distribution: Nova Scotia and New England States, south to New Jersey, west to Lake Superior Region, Missouri and New Mexico.
Nova Scotia: Port Midway VII-7 (14).
Connecticut: Lynn (Champlain).
New York: Buffalo VI (4); Yaphank VI-9 (19); Bellport VII-9 (19); Queens VII-16 (14).
Pennsylvania: Bear Meddows and Cedar Run, July (Knull).
New Jersey: Lakehurst V-22 (4); Atco VI-3 (2); Buena (2); Eagle Rock, West Berlin VI-25, Lacy VII-14 (M-W).
Hosts: Poplar *(Populus sp.)* and on sweet fern *(Comptonia pere grina)*. Bred from bayberry *(Myrica carolinensis)* also reported as breeding in apple twigs.
Season: July (Canada), June-July (U. S.).

143. LECONTEI Saunders (9553)

1859 *subfasciatus* Leconte (name preocupied) p. 245.
1871 *lecontei* Saunders p. 117 No. 110.
1873 Crotch p. 93.
1873 *subfasciatus* Lec. Crotch p. 93.
1884 Lugger p. 203.
1891 Horn p. 324.
1894 Stormberg p. 36.

1895 Hamilton p. 364.
1900 Chittenden p. 68.
1902 Ulke p. 21.
1903 Kerremans p. 224.
1903 *subfasciatus* Lec., Kerremans p. 224.
1904 Schaeffer p. 211.
1906 Felt p. 736.
1909 Blatchley p. 804.
1909 Smith p. 295.
1920 Knull p. 11.
1920 Frost & Weiss p. 222.
1922 Knull p. 86.
1922 Mutchler & Weiss p. 9.

Type locality: Illinois.
Distribution: Canada to Louisiana, west to Illinois and Texas, Arizona.
New Jersey: Anglesea (8); Hudson Co., Hunterdon Co. VI-21 (19).
Pennsylvania: Lemoyne (14); Hummelstown (10); Lemoyne IV-16 (17); Harrisburg (c).
Michigan: Marquette.
D. C.: Washington (10).
Maryland: Plummers Island VI-15 (c).
Tennessee: Elmwood (13).
Illinois: Riverside VII-2 (9).
Wisconsin: Beaver Dam VII-5 (c).
Louisiana: Oplelousus IV-24 (8).
Texas: Dallas (4); Carmal Co. (1); Brownsville (16); Round Mt. (8); Davis Mt. (8); Chisos Mts. VII-19 (8); Beeville (10); San Diego IV-27 (17); New Brunsfels (16).
Hosts: Hackberry *(Celtis occidentalis)* and Dogwood *(Cornus florida)*.
Season: June-July.

144. LUCANUS Fall (9490)

1906 Fall p. 167.
Type locality: El Taste, Lower (Bajo) California.
Distribution: Reported anly from the type locality.
Host: Unknown.

145. MACER Leconte (9487)

1858 Leconte p. 70.
1859 Leconte p. 248.
1891 Horn p. 298.
1892 Kerremans p. 263.
1896 Hamilotn p. 292, 263.
1900 Chittenden p. 68.
1903 Kerremans p. 268.
1905 Schaeffer p. 131.
1920 Frost & Weiss p. 207.

Type locality: Eagle Pass, Texas.
Distribution: Pennsylvania, Southwestern Texas, Kentucky.
Kentucky: (4).
(Pennsylvania: Record is doubtful.)
Texas: Carmal Co. (1); Chisos Mts. VII-28 (c); Brownsville VI-13 (c).
Host: Hackberry *(Celtis occidentalis)*.

146. MASCULINUS Horn (9515)

1891 Horn p. 295.
1892 Slosson p. 6.
1894 Stormberg p. 36.
1900 Chittenden p. 68.
1903 Kerremans p. 270.
1909 Blatchley p. 799.
1915 Weiss p. 101.
1917 Chagnon p. 219.
1920 Britton p. 244.
1920 Knull p. 10.
1920 Frost & Weiss p. 206.
1920 Frost p. 28.
1922 Knull p. 84.
1923 Champlain & Knull p. 274.
1924 Hatch p. 571.
1924 Mundinger p. 316.

Type locality: Illinois.
Distribution: Quebec to New Jersey, west to Illinois and New Mexico.
Canada: Montreal, Que. (2).
Connecticut: Paratype "Conn." (17).
New Jersey: Newport (2).
Pennsylvania: Harrisburg IV-14 (Knull), Charter Oak, June.
New York: Potsdam (2); Buffalo VI-21 (4); Stanton Isl. (4).
Missouri: St. Louis V-12 (c).
Michigan: High Island VII-7 (Hatch).
Ilinois: Galesburg (1) Lectotype "Ill." (17).
Wisconsin: Beaver Dam VI-23 (c).
Ohio: Cincinnati VI-1, VII-2 (11); Columbus (c).
New Mexico: Demming VII-17 (17).
Host: Box elder *(Acer negundo)*, and red maple *(Acer rubrum)*. Taken on foliage of red oak and buckeye.
Serson: June-July.

147. MERCURIUS Wickham (9533)

1903 Wickham p. 70.
1907 Fall-Cockerell p. 181.

Type locality: Deming, New Mexico.
Distribution: New Mexico and Utah.
Zoin Canyon, Utah (Knaus).
Host: Taken on scrub oak.

148. MUTICUS Leconte (9507)

1858 Leconte p. 70.
1859 Leconte p. 248.
1891 Horn p. 314.
1903 Keremans p. 296.
1906 Tucker p. 11.

Type locality: Kansas.
Distribution: Kansas, Colorado, Texas.
Kansas: Wallace Co. VII (1); Grove Co. 2500 ft. (9).
Texas: Fedor V (3), VI-7 (7); Tyler Co. (9).

149. NEVADENSIS Horn (9510)

1891 Horn p. 303.
1903 Kerremans p. 288.
1905 Schaeffer p. 131.
1917 Chamberlin p. 169.
1925 Good p. 272 fig. 45.

Type locality: Nevada.
Distribution: Western Nevada and California.
California: Cole VII (13); Tulare Co. (16); Yosemite (15); Redwood City (Burke).
Host: Aspen *(Populus tremuloides)*, Black cottonwood *(P. trichocarpa)*.
Season: July.

NIGRICANS Gory, See GEMINATUS Say

150. NIVEIVENTRIS Horn (9511)

1891 Horn p. 304.
1894 Horn p. 328.
1895 Fall p. 98.
1898 Wickham p. 305.
1901 Fall p. 120.
1903 Kerremans p. 270.
1906 Fall p. 168.
1913 Woodworth p. 195.
1917 Burke p. 331.
1924 Chamberlin p. 193.

Type locality: Western Nevada.
Distribution: *British Columbia, Oregon, California, Nevada, Arizona, New Mexico and Lower California.
Oregon: Oakridge (c); Corvallis (c).
California: Los Gatos, Placerville V-15; Sonoma Co. (4); Yreka (4); Azusa VI-6 (9); Bishop VI-2 (13); Cole VI-1 (13); Los Angeles (c), Pasadena (1); Palo Alto (c).
Arizona: Yuma (4).
New Mexico: Bulah (1).
Lower California: San Pedro Mts.
Nevada: Paratype Nev. (17).
Host: Lombardy poplar *(Populus nigra-italica)*, black cottonwood *(P. trichocarpa)*, Willow *(Salix sp.)*, western black willow *(S. lasiandra)* and reported from California live oak *(Quercus agrifolia)*.

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*Specimens taken in Oregon and British Columbia are undoubtedly a distinct species quite close to *niveiventris*.

OBLIQUUS Leconte, See FULGENS-ARCUATUS

151. OBOLINUS Leconte (9505)

1859 Leconte p. 248.
1870 Pettit p. 102.
1891 Horn p. 313.
1892 Kerremans p. 265.
1901 Fall p. 120.
1903 Kerremans p. 288.
1909 *knausii* Schaeffer p. 376.
1910 *knausii* Sch.=*obolinus* Lec., Fall pp. 138-139.
1913 Woodworth p. 195.

Type locality: Kansas.
Distribution: Canada (Ontario), Kansas, California and Texas.
Kansas: Belvidere VI-21 (16).

152. OBSOLETOGUTTATUS Gory (9547)

1837 Dejean p. 93 (no description)
1841 Gory p. 256 pl. 43 fig. 249.
1848 White p. 38.
1857 Leconte p. 9.
1859 *interruptus* Leconte p. 246.
1873 Crotch p. 93.
1880 *interruptus* Lec., Zesch-Reinecke p. VII.
1889 *interruptus* Lec., Blanchard p. 33.
1889 Chittenden p. 221.
1891 Horn p. 317.
1894 Stormberg p. 36.
1895 Slosson p. 319.
1895 Hamilton p. 364.
1895 *interruptus* Lec.=*obsoletoguttatus* Gory, Henshaw (Suppl.) p. 2.
1896 Bowditch p. 6.
1897 *interruptus* Lec., Harrington p. 70-71.
1898 Cockerell p. 152.
1898 Hopkins p. 103.
1900 *interruptus* Lec., Chittenden p. 68.
1902 Ulke p. 21.
1903 Kerremans p. 272.
1903 *interruptus* Lec., Kerremans p. 286.
1906 Felt. p. 701.
1907 Fall-Cockerell p. 181.
1907 Harrington p. 71.
1909 Blatchley p. 802.
1909 Smith p.295.
1909 Wickham p. 23.
1912 Frost p. 248.
1917 Chagnon p. 219.
1917 Morris p. 22.
1919 Nicolay p. 20.
1919 Morris p. 52.
1920 Knull p. 10.
1920 Britton p. 245.
1920 Frost and Weiss p. 222.
1922 Knull p. 86.
1922 Mutchler and Weiss p. 9.

Type locality: Probably Massachusetts.
Distribution: Southeastern Canada, New England States to North Carolina, west to Iowa and New Mexico.
Massachusetts: VI-10 (4); Framingham VI-9 (c); Sherborn V-30 (c).
New York: Common on Long Island (19); Stanton Isl. (4); Buffalo VI-7 (4).

New Jersey: South Orange VI-23 (4). Occurs throughout the state (M-W).
Virginia: Great Falls (10).
Pennsylvania: Philadelphia V-30 (8); Jannette VII-2 (0).
Louisiana: Opelousas IV-29 (8).
Kansas: Douglas Co. 900 ft. (4).
Illinois: Riverside V-12 (c).
Iowa: Iowa City (W); Elmo (W); Fairfax (W).
Ohio: Cedar Point VII-5 (c).
New Mexico: Gallinas Can. (24).
Hosts: Beech *(Fagus americana)*, Birch *(Betula lenta)*, red oak *(Q. rubra)*, Shingle oak *(Q. imbricaria)*, blue beech *(Carpinus caroliana)*, iron wood *(Ostrya virginiana)*, and hickory *(Hickoria sp.)*.

153. OBTUSUS Horn (9501)

1891 Horn p. 288.

Type locality: Texas (near the lower Rio Grande).
Distribution: Southwestern Texas.
Texas: Lectotype and Paratype "Tex." (17); Chisos VII-20 (8).
Host: Unknown.

OCCCIDENTALIS Uhler, See DIFFICILIS Gory

154. OLENTANGYI Champ. & Knull

1925 Champlain & Knull p. 469.

Type locality: Texas.
Distribution: Texas and Ohio (Columbus).
Host: Unknown.
Season: July.

155. ORNATULUS Horn (9558)

1891 Horn p. 319.
1900 Chittenden p. 68.
1903 Kerremans p. 274.
1920 Frost & Knull p. 222.

Type locality: Southwestern Texas (exact locality unknown).
Distribution: Southwestern Texas.
Texas: Lectotype and Paratype "Tex." (17); Carmal Co. (1); Uvalde VI-18 (2).
Host: Huisache *(Acacia farnesiana)*.
Season: June.

156. OTIOSUS Say (9539)

1836 *Buprestis* Say p. 163.
1838 *virescens* Dejean p. 93.
1841 *virens* Gory (Suppl) p. 259 pl. 43 fig. 252.
1857 *virens* Gory, Leconte p. 9.
1859 Leconte p. 244.
1859 *defectus* Leconte p. 244.
1870 Pettit p. 102.
1873 *defectus* Lec.=*otiosus* Say, Crotch p. 92.
1873 *pusillus* Say = *otiosus* Say, Crotch p. 92.
1873 *geminatus* Say=*otiosus* Say, Crotch p. 92.
1874 Henshaw p. 17.
1877 Provancher p. 359.
1878 *defectus* Lec., Hubbard-Schwarz p. 656.
1880 Zesch-Reinecke p. VII.
1883 Leconte p. 597.
1884 Harrington p. 45.
1884 Harrington p. 101.
1885 Harrington p. 31.
1889 Townsend p. 233.
1889 Blanchard p. 32.
1890 Packard p. 367.
1891 *defectus* Lec., Horn p. 293.
1891 Horn p. 291.
1892 Kerremans p. 266.
1893 Hopkins p. 183.
1893 Townsend p. 202.
1894 Stormberg p. 36.
1894 Chittenden p. 226.
1895 Hamilton p. 364.
1896 Walcott p. 236.
1897 Slosson p. 238.
1900 Chittenden p. 65-68.
1902 Ulke p. 21, 47.
1902 Young p. 157.
1903 Kerremans p. 272.
1903 *defectus* Lec., Kerremans p. 271.
1903 *virens* Gory, Kerremans p. 272.
1906 Felt p. 502, 518, 729.
1909 Smith p. 295.
1909 Easton p. 50.
1909 Blatchley p. 798.
1909 Wickham p. 23.
1912 Frost p. 252.
1915 Johnson p. 312.
1917 Chagnon p. 219.
1919 Nicolay p. 20.
1919 *defectus* Nicolay p. 19.
1920 Frost & Weiss p. 206.
1920 Knull p. 8.
1920 *defectus* Frost & Weiss p. 206
1920 *defectus* Knull p. 10.
1920 Frost p. 28.
1920 *defectus* Frost p. 28.
1920 *defectus* Britton p. 244.
1920 Britton p. 245.
1922 *defectus* Mutchler-Weiss p. 8.
1922 Mutchler-Weiss p. 9.
1922 *defectus* Knull p. 84.
1922 Knull p. 85.
1924 Blackman & Stage pp. 23, 24, 66.
1925 Fall p. 181.

Type locality: Kansas.

Distribution: Canada and the New Eigland States, south to Georgia, west to Iowa, Kansas and Texas.

Vermont: (4).

Massachusetts: Sherborn VI-9 (14); Brookline (14); Framingham V-31 (c).

Connecticut: New Haven V-10 (14).

New York: Stanton (4); Buffalo VI-10 (4); Peekskill (7); common on Long Island V-VII (19).
New Jersey: Ft. Lee VI-18 (4); throughout the state (M-W).
Pennsylvania: Bear Lake (4); Castle Rock V-21 (17); Jannette V (0); Hummelstown (Knull).
North Carolina: Tyron (10).
W. Virginia: Kanawah (10).
Virginia: Falls Church II (10).
Georgia: Clayton 3000 ft. (4).
Ohio: Cincinnati (11).
Tennessee: Elmwood (13).
Iowa: Iowa City (W); Elmo (W).
Missouri: St. Charles V-23 (2).
Illinois: Galesburg (2); Riverside VI-6 (c); Edgebrook VI-30 (0).
Wisconsin: Beaver Dam VII-5 (c).
Kansas: Baldwin V (0).
Hosts: Reported from maple, locust, butternut and box elder. Bred from black walnut *(Juglans nigra)*, Flowering dogwood *(Cornus florida)*, redbud *(Cerise canadensis)*; hazel *(Corylus americana)*, hickory *(Hickoria sp.)*, persimmon *(Diospyros virginiana)*, white oak *(Quercus alba)* and black locust (Felt).

156a. Variety PUSILLUS say (9516)

1825 *Buprestis pusilla* Say p. 252.
1836 *Buprestis* Say p. 162.
1859 Leconte p. 244.
1871 *parvus* Saunders p. 116.
1873 *pusillus* Say = *otiosus* Say, Crotch p. 92.
1883 Leconte p. 388, 596.
1891 Horn p. 333.
1891 *parvus* Saund.—*pusilla* Say, Horn p. 287.
1898 Wickham p. 305.
1903 Kerremans p. 271.
1903 *parvus* Saund. Kerremans p. 271.
1909 Wickham p. 23.
1909 Smith p. 295.
1909 Blatchley p. 805.
1922 Knull p. 84.
1922 Mutchler and Weiss p. 10.

Type locality: "On the Missouri River."
Distribution: New Jersey to So. Dakota, Colorado and Arizona.
Kansas: Salina (17); Medora (7).
Missouri: St. Louis VI-16 (2).
Arizona: Pinal Mts. (W).
Iowa:: Iowa City VI-15 (c).
Pennsylvania: Hummelstown (Klages).
Texas: Beeville V-2 (10).
Illinois: Garland VII-17 (c).
So Dakota: Volga (2).
Colorado: Littleton VI-22 (c).

157. PALMACOLLIS Horn (9554)

1891 Horn p. 326.
1900 Chittenden p. 68.
1900 Griffith p. 568.
1903 *palmaticollis* Horn, Kerremans p. 288.
1907 Fall-Cockerell p. 181.
1920 Frost & Weiss p. 222.

Type locality: Western Texas (exact locality not known).
Distribution:: New Mexico, Arizona, Texas and California.
Pinal Mts., Ariz. (4), Brownsville, Tex. (16), Yuma, Cal. (C).
Host: Mesquite *(Prosopis juliflora)*, Huisache *(Acacia farnesiana)*.
Season: July.

158. PARMASCULINUS Champlain and Knull

1923 Champlain and Knull p. 274.
Type locality: Kansas.
Host: Unknown.

PARVUS Saunders, See PUSILLUS Say

159. PENSUS Horn (9512)

1891 Horn p. 305.
1903 Kerremans p. 289.
1912 Gibson p. 14.
1913 Gibson p. 126.
1915 Frost p. 144.
1919 Nicolay p. 277.
1920 Frost & Weiss p. 209.
1920 Frost p. 27.
1922 Knull p. 84.

Type locality: Massachusetts.
Distribution: Nova Scotia to New Jersey.
Nova Scotia: Greenfield VII; Port Midway VIII-14.
Massachusetts: Lectotype and Paratype "Mass." (17).
Maine: Monmouth VI-27 (14); Wales VI-23 (14).
New Jersey: Newfoundland VII-24 (19).
New Hampshire: White Face Mts. (2).
Pennsylvania: Charter Oak, June (Knull).
Illinois: Galesburg (2).
Host: Black alder *(Alnus incana)*. Taken on hornbeam *(Ostrya virginiana)*.
Season: July, August (Nova Scotia).

160. PINALICUS Wickham (9550)

1903 Wickham p. 69.
1907 Fall-Cockerell p. 180.

Type loaclity: Parker's Well, Organ Mts., New Mexico.
Distribution: Arizona (Pinal Mts.) and New Mexico.
Host: Unknown.
Season: June-October.

PLUMBEUS Leconte, See POLITUS Say

161. POLITUS Say (9542)

1825 *Buprestis polita* Say p. 251.
1836 Say p. 162.
1857 *polita* Lacordaire p. 84.
1859 Leconte p. 248.
1859 *plumbeus* Leconte p. 247.
1859 *cupreolus* Leconte p. 248.
1859 *desertus* (name preoccupied) Leconte p. 249.
1868 Horn p. 124.
1869 *solitarius* Gemminger-Harold p. 1445.
1870 *plumbeus* Lec.=*politus* Say, Pettit p. 102.
1871 Saunders p. 117.
1877 Provancher p. 359.
1878 *plumbeus* Lec., Hubbard-Schwarz p. 636, 656.
1878 Hubbard-Schwarz p. 636, 656.
1878 Glover p. XI fig. 2.
1879 Leconte p. 504.
1880 Zesch-Reinicke p. VII.
1883 Leconte p. 387, 596.
1884 Lugger p. 203.
1889 Chittenden p. 221.
1889 Blanchard p. 32.
1891 Horn p. 315.
1892 Kerremans p. 268.
1893 Hopkins p. 184.
1894 Fall p. 98.
1895 Evans p. 146.
1895 Hamilton p. 364.
1898 Cockerell p. 152.
1898 Chittenden p. 44-51.
1899 Evans p. 321.
1900 Chittenden p. 68.
1901 Fall p. 120.
1902 Skinner p. 40.
1902 Young p. 157.
1902 Ulke p. 47.
1903 Kerremans p. 272.
1903 *cupreolus* Lec., Kerremans p. 284.
1906 Felt p. 729, 741.
1906 Fall p. 168.
1907 Fall-Cockerell p. 180.
1909 Blatchley p. 801.
1909 Easton p. 50.
1909 Smith p. 295.
1909 Wickham p. 23.
1912 Frost p. 248.
1912 Gibson p. 14.
1913 Gibson p. 126.
1913 Manee p. 170.
1913 Woodworth p. 195.
1914 Weiss p. 438.
1914 Childs p. 150-155.
1915 Essig p. 234.
1916 Frost p. 386.
1917 Nicolay p. 93.
1917 Felt p. 37, 135.
1917 *desertus* Lec.=*solitarius* Harold, Fisher p. 288.
1917 Chagnon p. 219.
1917 Fisher p. 288.
1917 Chamberlin p. 168.
1917 Burke p. 331.
1917 *solitarius* G. & H., Burke, p. 331.
1917 Burke pl. IX fig. 3.
1918 Ruggles p. 15.
1920 Britton p. 245.
1920 Knull p. 10.
1920 Frost p. 28.
1922 Frost p. 96.
1922 Mutchler-Weiss p. 9-10.
1922 Frost & Weiss p. 220.
1922 Knull p. 85.
1922 Wellhouse p. 1106.
1923 Hutchings p. 43-46.
1924 Hatch p. 571.
1924 Chamberlin p. 194.
1925 Chapin p. 33.
1925 Champlain & Knull p. 113.

Type locality: "Banks of Mississippi River."
Distribution: Nova Scotia to Carolina, west to the Pacific Coast.
Canada: Toronto, Que. (2); Manitoba (2); Victoria, B. C. (4); Huntsville, Ont. (8); Halifax, N. S.
Maine: Paris VI-9, VII-16 (14).
Massachusetts: Sherborn VI-9 (14).
Pennsylvania: Fox Chase VII-14 (8); Hummelstown, Chambersburg (Knull).
New York: Kalanak VI (9); West Point VI-3 (c).
New Jersey: Boonton (2); Madison, Hudson Co., Newfoundland VI-2 (M-W).
North Carolina: Cranbury VI-9 (8); Black Mts. VI-25 (9).
Illinois: Galesburg (2); Riverside VII-11 (c); La Grange VII-28 (c); Edgebrook VII-3 (c).
Ohio: Cincinnati VII-15 (11).
Iowa: Fairfax (W); Iowa City (W); Eastport (W).
Kansas: Riley Co. (2); Baldwin VIII (0).
Wisconsin: Bayfield (2).
Washington: Spokane (7).
Oregon: Josephine Co. (9); Hoover VIII (c); Marys Peak VII (0); Corvallis VII-30 (c); Klamath Falls VII-21; La Grande VII-8 (c).
Idaho: Loisen (10); Emmett VI-18.
Montana: Bitter Root Mts. (1).
California: Yreka (4); San Bernardino Mts. (5); Sierra Madra Mts. VII (7); San Francisco, Cal. (8); Lake Tahoe 6200 ft. VII-10 (9); Santa Rosa (13); McCloud VI-22 (13); Cole (13); Contra Costa Co. V-21 (c); Castle Crag VII (13); Los Gatos (13).
New Mexico: Ft. Wingate VII (4); Santa Fe, Gallinas Can. (24).
Arizona: Huachuca VII-10 (8); Tempe VI-9 (9); St. Catalina Mts. (10); Palmerlee VII-22 (c).
Nevada: (17); Utah (17); Texas (17).
Colorado: Mt. Lookout (Golden) 7000 ft. VII-10 (c); Ouray 10,000 ft. (22); Leadville 11,000 ft. (22); Alimora, Garland and Veta Pass 9400 ft. (Leconte).
Hosts: Mountain willow *(Salix monticola)*, nuttalls willow *(S. nuttalli)*, arroyo willow *(S. lasiolepsis)*, weeping willow *(S. babylonica)*, introduced willow *(S. obtusifolia)*, honey locust *(Robinia pseudocacia)*, California live oak *(Quercus agrifolia)*, mountain alder *(Alnus tenufolia)*, Oregon alder *(A. oregona)*, California buckeye *(Aesculus californica)*, Dwarf maple *(Acer glabrum)*, striped maple *(A. pennsylvanicum)*, Hazel *(Corylus rostratus)* and *(C. americana)*, Rose *(Rosa sp.)*.
Season: June-July (Me.); May-Aug. (Calif.); June-Sept. (Ore.); July (Nova Scotia); July (Ariz. 8000 ft.).

162. PSEUDOFALLAX Frost

1923 Frost p. 279-80.
Type locality: Allegheny, Pa.
Range: Pennsylvania, Alabama, Ohio, Indiana, Kansas.
Host: Taken on oak.

PUBIVENTRIS Crotch, See LACUSTRIS Leconte

PUNCTICEPS Leconte, a Variety of EGENUS Gory

PUSILLUS Say, a Variety of OTIOSUS Say

163. PUTILLUS Say (9537)

1836 Say p. 163.
1857 Lacordaire p. 84.
1873 Crotch p. 96.
1878 Hubbard-Schwarz p. 656.
1883 Leconte p. 597.
1884 Harrington p. 71.
1891 Horn p. 323.
1903 Kerremans p. 289.
1909 Blatchley p. 794.
1920 Nicolay-Weiss p. 145.
1922 Knull p. 85.

Type locality: Posey County, Indiana.
Distribution: Canada, Indiana, Pennsylvania, Illinois and Ohio.
Pennsylvania: Jannette, Hummelstown and Charter Oak, June.
Ohio: Cincinnati, June 10 (c).

QUADRIGUTTATUS Gory, See GRANULATUS Say

14-SPILOTA Obenberger

1917 Obenberger p. 55.
Type locality: Reported from North America. Possibly Mexico?

QUADRI-IMPRESSA (4 IMPRESSA) Ziegler, see ACUTIPENNIS Mannerheim

164. QUERCUS Schaeffer (9509)

1905 Schaefer p. 150.
Type locality: Palmarlee, Huachuca Mts., Arizona.
Distribution: Reported only from type locality.
Host: Unknown.
Season: June-July.

165. RESTRICTUS Waterhouse

1889 Waterhouse p. 119.
1920 Fisher and Nicolay p. 100-102.
1921 Nicolay p. 175.

Type locality: Mexico.
Distribution: Mexico and Arizona.

166. RUFICOLLIS Fabricii (9513)

1787 *Buprestis* Fabricii p. 184 No. 85.
1788 *Buprestis* Linne (Gmel) p. 1937.
1790 Oliver (gen. 32) p. 78 pl. 9 fig. 101.
1792 Fabricii p. 214 No. 121.
1801 Herbst p. 249 pl. 155 fig. 9.
1801 *Buprestis* Fabricii p. 213 No. 152.
1817 Schonherr p. 260.
1836 Say p. 160.
1837 Dejean p. 93.
1840 Erichson p. 240.
1841 Gory p. 60 pl. 13 fig. 78.
1846 Holdeman p. 300.
1846 Holdeman p. 373.
1848 White p. 37.
1859 Leconte p. 243.
1868 Riley p. 92.
1869 Glover p. 92 fig. 107.
1870 Riley p. 103.
1870 Pettit p. 102.
1870 Carpenter p. 129.
1871 Glover p. 65.
1873 Crotch p. 92.
1874 Saunders p. 8 fig. 3, 4.
1874 Le Baron p. 96.
1876 Thomas p. 114.
1877 Hoffmeister p. 243.
1877 Perkins p. 128.
1878 Glover pl. XI fig. 4, pl. 41 fig. 9.
1878 Schwarz p. 452.
1878 Hubbard-Schwarz p. 656.
1880 Lintner p. 215.
1880 Zesch-Reinicke p. VII.
1880 Riley p. 107.
1883 Leconte p. 595.
1883 Saunders p. 307.
1884 Harrington p. 44.
1886 Horn p. 137.
1889 Blanchard p. 32.
1889 Treat p. 213.
1890 Harrington p. 54.
1890 Lintner p. 123.
1890 Lugger p. 164.
1890 Hopkins p. 19, p. 160.
1891 Smith p. 4-8.
1891 Smith p. 28.
1891 Hopkins p. 435.
1891 Hopkins p. 81-84.
1891 Horn p. 289.
1891 Smith p. 52.
1891 Hopkins p. 1-6, pl. 1.
1892 Kerremans p. 271.
1892 Hopkins p. 257.
1892 Smith p. 456.
1892 Webster p. 191-193.
1892 Marten p. 24.
1892 Laurent p. 37.
1893 Townsend p. 202.
1893 Smith p. 157.
1893 McCarty p. 129.
1894 Davis p. 78.
1894 Webster p. 203.
1894 Webster p. 29-30.
1894 Webster p. 357.
1894 Lintner p. 406.
1895 Davis p. 56 fig. 1.
1895 Hamilton p. 364.
1896 Castle-Laurent p. 303.
1897 Castle p. 8.
1897 Harrington p. 70.
1898 Lugger p. 85.
1899 Lugger p. 142.
1899 Lugger p. 58.
1900 Felt p. 579.
1900 Chittenden p. 68.
1900 Felt p. 24.
1900 Smith p. 482-483.
1901 Felt p. 839, 874.
1901 Smith p. 484.
1902 Smith p. 71.
1902 Ulke p. 21, 47.
1902 Young p. 157.

1902 Chittenden p. 726.
1903 Kerremans p. 270.
1904 Pettit p. 2.
1904 Washburn p. 51.
1905 Gossard p. 24.
1905 Nicholson p. 15.
1907 Jarvis p. 66.
1908 Bethune p. 97.
1909 Wickham p. 23.
1909 Easton p. 50.
1909 Blatchley p. 798.
1909 Smith p. 294 fig. 112-113.
1910 Hitchings p. 4.
1911 Treherne p. 24.
1912 Caesar p. 31.
1912 Slingerland and Crosby p. 332.
1912 Sanderson p. 466.
1912 Gibson p. 24.
1913 Deans-Peairs p. 112.
1913 Manee p. 170.
1914 Washburn p. 1.
1914 Comstock p. 550 fig. 664.
1914 O'Kane p. 244.
1915 Somes p. 13-14.
1915 Grant p. 16.
1915 Johnson p. 312.
1917 Nicolay p. 93.
1917 Felt p. 142.
1917 Chagnon p. 219.
1918 Graham p. 5.
1918 Blackman part II p. 124.
1920 Britton p. 245.
1920 Jones p. 157.
1920 Fluke p. 186.
1922 Chittenden pp. 1-5.
1922 Scholl p. 80.
1922 Mutchler-Weiss p. 10-11 fig. 6-7.
1922 Knull p. 84.
1922 Hutchings p. 43-46.
1924 Mundinger p. 316.
1925 Chapin p. 33.

Type locality: North America.
Distribution: Canada (Ottawa, Quebec), Atlantic Coast States, west to Iowa and Missouri.
Host: Dewberry, raspberry, blackberry *(Rubus spp.)*, willow *(Salix sp.)*, oak *(Quercus sp.)*.

SAYI Saunders, See LATERALIS Say

167. SCITULUS Horn (9532)

1891 Horn p. 318.
1900 Chittenden p. 68.
1903 Kerremans p. 290.
1920 Frost and Weiss p. 222.

Type locality: Waco, Texas.
Distribution: Waco and New Brunsfels, Texas (16) (17).
Host: Huiasche *(Acacia farnesiana)*.
Season: June.

168. SIERRAE Van Dyke

1923 Van Dyke p. 40.
Type locality: Mariposa County, California, June.

169. SINUATUS Oliver (9540)
(Introduced species)

1790 *Buprestis* Oliver gen. 32 p. 74 No. 100 pl. X fig. 11.
1801 *Buprestis* Herbst p. 253 pl. 153 fig. 1.
1817 Schonherr p. 245 No. 155.
1825 *chrysesis* Curtis vol. II p. 67.
1833 *sinuata* Solier p. 305.
1841 Laporte-Gory p. 43.
1857 Lacordaire p. 61.
1859 Leconte p. 246.
1880 Horn p. 148.
1892 Kerremans p. 272.
1892 Smith p. 363-364, 448, fig. 60.
1892 Smith p. 10.
1894 Smith p. 429, 550, 561.
1894 Smith p. 258-260.
1894 Smith p. 311, 323.
1894 Howard p. 2.
1895 Smith p. 85 fig. 1.
1895 Smith p. 13-24 fig. 5.
1897 Webster p. 42-45.
1898 Lugger p. 85.
1899 Beach, etc., p. 429-430.
1899 Lugger p. 61.
1899 Lugger p. 145.
1900 Chittenden p. 64-65, 68.
1902 Banks p. 40.
1902 Felt p. 122.
1903 Felt p. 39-48.
1906 Felt p. 504.
1909 Smith p. 295.
1915 Perrott & Glasgow pp. 1-4.
1915 Felt p. 78.
1916 Felt p. 78.
1917 Felt p. 134.
1918 Weiss p. 5-8 fig. 2, 3.
1918 Britton p. 361.
1918 Pierce p. 5.
1921 Britton p. 193.
1922 Knull p. 85.
1922 Mutchler-Weiss p. 11-12 fig. 8.
1922 Wellhouse p. 1108.

Type locality: Europe.
Distribution: General in Europe. Introduced into the United States. Reported from New Jersey to Ohio.
New Jersey: Essex, Bergen, Union, Monmouth and Middlesex Counties (Weiss).
Host: In Europe White Thorn, medlar and Mt. oak. In U. S. cultivated pear *(Pyrus communis)*, red oak *(Quercus rubra)*, and Haw *(Crataegus)*.

170. SNOWI Fall (9495)

1905 Fall p. 270.
Type locality: Bill Wms. Fork, Arizona.
Distribution: Known only from type locality.
Type in the Univ. of Kansas Collection.

SOLITARIUS Gemminger-Harold, See POLITUS Say

SOLITARIUM Fisher, See POLITUS Say

171. STRIGICOLLIS Fall (9506)

1912 Fall p. 41.
Type locality: Huachuca Mts., Arizona.
Distribution: Huachuca Mts., Arizona.
Host: Unknown.

SUBAERTUS (Horn) Harris, See OBSOLETOGUTTATAS Gory

172. SUBALTEATA Leconte

1863 Leconte p. 82.
Type locality: San Lucus, Bajo, California.
Distribution: Same.
Host: Unknown.

173. SUBCINCTUS Gory (9536)

1841 Gory IV, p. 252 pl. 42 fig. 245
1857 Leconte p. 9.
1859 Leconte p. 246.
1873 Crotch p. 93.
1891 Horn p. 322.
1895 Hamilton p. 364.
1902 Ulke p. 21.
1903 Kerremans p. 291.
1909 Smith p. 295.
1909 Blatchley p. 803.
1918 Dozier p. 331.
1920 Knull p. 11.
1920 Frost and Knull p. 222.
1922 Knull p. 85.
1922 Mutchler & Weiss p. 12.

Type locality: North America.
Distribution: New Jersey, North Carolina, Pennsylvania, Indiana and Illinois, Southeastern Canada.
Pennsylvania: Janette (13); Pittsburg, Hummelstown (Knull); Castle Rock VI-13 (c).
Missouri: St. Charles V-18 (2); Arlington (c).
New Jersey: Madison, Camden III-22; Westville, Orange Mts. VII-28 (19); Rocky Hill.
Illinois: St. Clair Co. VI (2).
Gainsville, Florida III-24, IV-4.
Host: On poison ivy *(Rhus toxicodendron)*.

SUBFASCIATUS Lec., See LECONTEI Saunders

174. SUBTROPICUS Schaeffer (9560)

1905 Schaeffer p. 131.
Type locality: Brownsville, Texas.
Distribution: Same.
Host: Unknown.

TEXANUS Crotch, See CAVATUS Chevrolat

TORPIDUS Leconte, See ANXIUS Gory

TORQUATUS Leconte, See ARCUATUS Say

175. TOWNSENDI Fall (9527)

1907 Fall p. 234.
1907 Fall and Cockerell p. 181.
1920 Frost & Weiss p. 207.
1923 Champlin & Knull p. 274.

Type locality: Rio Ruidosa, White Mts., Arizona.
Distribution: Reported only from Rio Ruidosa (6500 ft.), Arizona.
Host: Taken on Gambell oak (*Quercus gambellii*).

176. TRANSIMPRESSUS Fall

1925 Fall p. 181-182.
Type locality: Hope, Arkansas.
Host: *Juglans nigra*.

TRIVITTATUS Horn, See BILINEATUS Web.

*UMBRATUS Harold

1869 Harold Col. Heft. Vol. 5 (Etats-Unis).
1892 *umberatus* Harold=*tenuis* Gory, Kerremans p. 276 (Amer. Mer.).
1903 Kerremans p. 268.

177. VENTRALIS Horn (9559)

1891 Horn p. 320.
1907 Fall-Cockerell p. 181.
Type locality: New Mexico (exact locality unknown).
Distribution: New Mexico, Lectotype and Paratype New Mex. (17).
Host: Unknown.

VIRENS Gory, See OTIOSUS Say

†VIRDIS Linne

1758 Linne p. 410 (Original description of *viridis*).

*The status of this species is doubtful.
†Not reported from the United States, but mentioned in our literature in connection with var. *fagi*.

178. Variety FAGI Ratzeburg
(Introduced species)

1839 Ratzeburg p. 63.
†1892 Kerremans p. 277.
1914 Weiss p. 250, 438.
1914 Headlight p. 657.
1916 Weiss p. 287, 436.
1918 Pierce p. 46.
1921 Nicolay p. 175.
1921 Weiss pp. 9-10.
1922 Frost & Weiss p. 221.
1922 Knull p. 86.
1922 Mutchler-Weiss pp. 13-14 fig. 9.
1924 Frost p. 27.
1924 Felt p. 64.

Type locality: Europe.

Distribution: Widely distributed in Europe; introduced into New Jersey, Pennsylvania and Massachusetts.

Host: In the U. S. reared from cultivated rose *(Rosa rugosa* and *R. carolina)*.

179. VITTATICOLLIS Rnadall (9548)

1838 Randall p. 38.
1841 *frenatus* Gory VI, p. 239 pl. 40 fig. 231.
1857 Lacordaire p. 85.
1857 *frenatus* Gory, Leconte p. 9.
1859 *frenatus* Gory = *vittaticollis* Rand., Leconte p. 246.
1871 Saunders p. 117.
1873 Crotch p. 96.
1875 Sprague-Austin p. 376 (267).
1878 Glover pl. 42 fig. 2.
1878 Schwarz p. 451.
1878 Hubbard-Schwarz p. 636.
1889 Blanchard p. 32.
1891 Horn p. 299.
1892 Kerremans p. 278.
1895 Hamilton p. 364.
1900 Chittenden p. 68.
1903 *frenatus* Gory, Kerremans p. 272.
1903 Kerremans p. 272.
1906 Fall p. 168.
1906 Felt. p. 720.
1909 Smith p. 295.
1909 Blatchley p. 799-800.
1913 Manee p. 170.
1914 Brooks p. 179-186 plates.
1914 *frenatus* Gory, Brooks p. 179.
1917 Nicolay p. 93.
1917 Chamberlin p. 169.
1918 Fisher p. 68.
1920 Britton p. 245.
1920 Knull p. 10.
1920 Frost & Weiss p. 207.
1920 Frost p. 26-29.
1922 Wellhouse p. 1050, 1108.
1922 Knull p. 86.
1922 Mutchler-Weiss p. 14.
1924 Chamberlin p. 193.

Type locality: Cambridge, Massachusetts.

Distribution: Canada to Carolina, west through Michigan, Illinois,

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†No attempt has been made to give the foreign works dealing with this species; for a rather complete list and synonomy see Kerremans 1892, p. 277.

Indiana, to Oregon, California and Nevada.
Massachusetts: Tyngsboro VI-21 (2).
Rhode Island: Providence IV-12 (2).
New Jersey: Buena VI-8 (2); Clementon VI-7 (2); Jamesburg VII-4 (2); Lakehurst VII-12 (4); Newfoundland VII-6 (4); Hewitt VI-2 (4); Atco (8); Ft. Lee (16).
Pennsylvania: Inglebrook VI-11 (2); Dauphin (Knull); Endeavor VII-30; Charter Oak VI-20; Hummelstown (Knull).
New York: West Point VI-9 (c).
North Carolina: Tyron VI-10.
Virginia: Winchester, Hayfield, Stanton (Brooks).
West Virginia: French Creek, Springfield, Moorefield, Romney, Keyser, Elkino (Brooks).
Oregon: Corvallis V-29 (c); Josephine Co. V-8; Grants Pass VII-9.
California: Carrville VI-1 (10).
Hosts: Bred from service berry *(Amalanchier canadensis)*, apple *(Pyrus malus)*, pear *(Pyrus communis)*, Sweet Crab *(Pyrus coronaria)*, Wild thorn *(Crataegus sp.)*.

180. WALSINGHAMI Crotch (9494)

1873 Crotch p. 95.
1891 Horn p. 311.
1892 Kerremans p. 278.
1894 Horn p. 379.
1901 Fall p. 120.
1903 Kerremans p. 269.
1905 Fall p. 271.
1906 Fall p. 168.
1907 Fall-Cockerell p. 180.
1917 Chamberlin p. 169.
1919 Van Dyke p. 10.

Type locality: Yreka, California.
Distribution: Oregon, California, Idaho, Arizona, Utah, New Mexico and Nevada.
Oregon: Josephine Co.
California: Siskiyou, California, Inyo Counties (15); Independence VII-17 (13); Type No. 2714 "Cal." (17).
Idaho: Boise.
Utah: St. George.
Arizona: Winslow (4).
Nevada: Carson City
New Mexico: Santa Fe VIII (13); Luna, Tseque (13).
Hosts: Unknown. (Probably a desert shrub.)
Season: June-July-August.

ZEMES Gory, See FALLAX Say

Genus *AMPHEREMUS* Fall

1917 Fall p. 68.
Type of the Genus **AMPHERUEMAS CYLINDRICOLLIS** Fall.

181. CYLINDRICOLLIS Fall (9328)

1917 Fall p. 69.
Type locality: Palm Springs, California.
Distribution: Desert regions of Southeastern California.

Genus *ANTHAXIA* Esch.

Type of the Genus **BUPRESTIS** (eganicornis*) **HUNGARICA** Scopoli.

182. AENEOGASTER Lap.-Gory (9394)

1837 *Buprestis* Laporte-Gory p. 32 pl. 7 fig. 44.
1838 *Buprestis inornata* Randall p. 4.
1843 Mannerheim p. 237 No. 133.
1857 Lconte p. 9.
1857 *expansa* Leconte p. 44.
1859 Leconte p. 71.
1859 *strigata* Leconte p. 71.
1859 *strigata* Leconte p. 215.
1859 *foveicollis* Leconte p. 215.
1859 *imperfecta* Leconte p. 215.
1859 *retifera* Leconte p. 215.
1859 *inornata* Leconte p. 216.
1873 Leconte p. 331.
1873 *aerico* Crotch p. 89.
1873 *expansa* (female) is *foveicollis* (male) Leconte p. 331.
1882 Horn p. 108.
1882 *prasina* Horn p. 108.
1882 *inornata* Rand., Horn p. 108.
1882 *foveicollis* Lec., Horn p. 108.
1882 *imperfecta* Lec., Horn p. 108.
1882 *retifera* Lec., Horn p. 108.
1882 *expansa* Lec., Horn p. 108.
1882 *strigata* Lec., Horn p. 108.
1884 *inornata* Harrington p. 71.
1884 *nanula* Casey p. 174.
1884 *simiola* Casey p. 175.
1884 *aenescens* Casey p. 175.
1884 Casey p. 172.
1886 *inornata* Gurguard p. 47.
1886 Roberts p. 16.
1889 Blanchard p. 31.
1890 Harrington p. 159.
1890 *inornata* Harrington p. 159.
1892 Kerremans p. 116.
1892 Coquillett p. 260.
1893 Hopkins p. 182.
1894 var. *strigata* Horn p. 327.
1894 Harirngton p. 47.
1895 Fall p. 98.
1895 Evans p. 146.
1896 Bowditch p. 2.
1897 Cockerell p. 150.
1898 Cockerell (28) p. 152.
1899 Wickham pt. 7 p. 237.
1901 Fall p. 117.
1903 Kerremans p. 175.

**B. eganicornis* is probably a typographical error, meant for *cyanicornis*, which is a synonym of *hungarica Scol.*

1903 *aenescens* Cas., Kerremans p. 176.
1903 *inornata* Rand., Kerremans p. 173.
1903 *expansa* Lec., Kerremans p. 173.
1903 *imperfecta* Lec., Kerremans p. 173.
1903 *retifera* Lec., Kerremans p. 173.
1903 *foveicollis* Lec., Kerremans p. 173.
1903 *strigata* Lec., Kerremans p. 173.
1903 Knaus p. 175.
1906 Felt p. 715.
1907 Fall-Cockerell p. 179.
1908 Wright-Coolidge p. 67.
1909 Smith p. 292.
1909 Blatchley p. 786.
1911 Watson p. 77.
1913 Woodworth p. 195.
1916 Morris p. 19.
1917 Burke p. 328.
1917 Burke pl. III fig. 2.
1917 Chamberlin p. 135.
1921 *aeneogaster* var. *prasina* Horn, Nicolay p. 174.
1922 Knull p. 82.
1924 Chamberlin p. 189.
1925 Good p. 272 figs. 20-21.
1925 Chapin p. 33.

Type locality: California.

Distribution: Transcontinental, Maine to Washington; Hudson Bay to Mexico and Lower California.

Canada: Aylmer, Que. VI-24 (14); Emerald Lake, B. C. (13); Field, B. C. VI-2 (17); Fraser, B. C. (2); Oseyeos, B. C. (2).

Washington: Spokane (4); Seattle (2); Olympia (2).

Oregon: Dilly (4); Sumpter VII-21 (c); Hideway (10); Hood River (10); Corvallis IV-21 (C); Ashland VI-20 (C); Horse Lake VI-25 (C); Klamath County (very common) (C).

California: Tejon; Bishop (13); Cole (13); Tallac (13); Mill Valley (13); Pasadena (13); Pac. Grove (13); Sierra Madra Mts. 5000 ft. VII-10 (7); King's River Can. VII-11 (7); San Francisco (8); Mendocino Co. (9); Yosemite 5000 VII-14 (9); San Diego (10); Santa Clara Co. (10); Los Angeles (2).

New Mexico: Cloudcraft VI-18 (17); Beula (1); Aztec V-5 (10).

Texas: Fedor IV (3).

Montana: Bitter Root Mts. (1); Helena (10).

Colorado: Denver (3); Manitou 6100 ft. VI-5 (4); Colo. Springs VI (10).

Idaho: Cascade VI-22 (c); Beaver Can. VII-20 (10); Priest Lake (2).

Arizona: Grand Canyon VI-17 (9); Phoenix (4); Prescott VI-18 (4); Williams (10); Yuma 150 ft. (10).

So. Dakota: Black Hills (10).

New York: Buffalo (1).

New Hampshire: Mt. Washington VII-2 (14).

Michigan: Eagle Harbor L. S. (10).

Nebraska: Pine Ridge (10); War Bonnet Can. VII (10).

Indiana: Jollette (3).

Pennsylvania:: Castle Rock V-30 (8); Bethlehem.
Wyoming: Yellowstone Park (10).
Illinois: La Grange VII-18 (c).
Lower California: Ensenada (1).
Hosts: Redwood *(Sequoia semipervirens)*, Lodgepole pine *(Pinus contorta)*, Douglas fir *(Pseudotsugae taxifolia)*, weeping willow *(Salix babylonica)*, Mountain mahogany *(Cercocarpus parvifolius)*, Sugar pine *(Pinus lambertiana)*, pinion *(P. edulis)*, yellow pine *(P. ponderosa)*, jeffrey pine *(P. jeffreyi)*, knobcone pine *(P. attenuata)*, Digger pine *(P. sabiniana)*, pitch pine *(P. rigida)*, Monterey pine *(P. radiata)*, California walnut *(Juglans californica)*, hickory *(Hickoria sp.)*, California white oak *(Quercus californica)*, Garry oak *(Quercus garryana)*, *(Rosa neomexicana)*, service berry *(Amelanchier alnifolia)*, red bud *(Cercis occidentalis)*, and Rhododendron *(Rhododendron occidentalis)*.
Adults feed on the pollen and leaves of primrose, dandelion *(Taraxacum officanale)*, butter cup *(Rosa fendleri)*, ladies slipper *(pubescens)*, and *(Antennaria sp.)*.
Season: March-Sseptember.

AENESCENS Casey, See AENEOGASTER Laporte-Gory

AERICO Crotch, See AENEOGASTER Laporte-Gory

BIVITTATA Gory, See QUERCATA Fabricii

*CALIFORNICA Obenberger

1914 Obenberger p. 26.
Type locality: California.

*CASEYI Obenberger

1914 Obenberger p. 26.
Type locality: Pennsylvania.

1914 Obenberger p. 17.

CUNEIFORMIS Gory, See QUERCATA Fabricii

CYANELLA Gory, See QUERCATA Fabricii

133. DELETA Leconte (9397)

1878 Leconte p. 459.
1882 Horn p. 109.
1892 Kerremans p. 120.
1895 Fall p. 98.
1901 Fall p. 117.
1903 Kerremans p. 174.
1911 Gibson p. 114.
1913 Woodworth p. 195.
1914 Obenberger p. 17.
1917 Chamberlin p. 135.
1924 Chamberlin p. 189.

*The status of these species is doubtful.

Type locality: American Fork Canyon, Utah, 9500 ft. VI-29.
Distribution: British Columbia south through the Rocky Mountain and Pacific Coast States to Arizona.
British Columbia: Peachland VII-23 (Wallis).
Oregon: Portland V-28 (10); Corvallis VII-17 (c); Ashland VII-2 (C).
California: Tulare (1); Siskiyou (1); King's River Can. VII (7); Yosemite 4000 ft. V-18, VI-22 (9); Dunsmuir (4); McCloud VI-25 (9); Tahoe (10); Los Angeles (10); Tehama Co. (10); Castle Crag (13); Mt. Lowe (13); Sylvania (13).
Arizona: Walnut (4); Williams (4); Prescott VI-19 (10); Bright Angle G. C. VII-10 (10).
Idaho: Coeur d'Alene (17).
Utah: Amer. Fork Canyon 9500 ft. VII-11 (17).
Host: Willow *(Salix sp.)*.

EXPANSA Lec., See AENEOGASTER Laporte-Gory

FOVEICOLLIS Leconte, See AENEOGASTER Laporte-Gory

GRACILLIS Mannerheim, See AGRILAXIA FLAVIMANA Gory

IMPERFECTA Leconte, See AENEOGASTER Laporte-Gory

INORNATA Randell, See AENEOGASTER Laporte-Gory

NANULA Casey, See AENEOGASTER Laporte-Gory

PENSYLVANICA Oben.

1914 Obenberger p. 26.
Type locality: Pennsylvania.
1914 Obenberger p. 17.

184. QUERCATA Fabricii (9396)

1801 *Buprestis quercata* Fabricii p. 216.
1817 *Buprestis* Schonherr p. 263.
1825 Say p. 249.
1834 *viridicornis* var. Say p. 161.
1837 *cuneiformis* Dejean p. 91.
1837 Mannerheim p. 91.
1837 *cyanella* Mannerheim p. 91.
1837 *cuneiformis* Gory, Mannerheim p. 91.
1841 Laporte-Gory II p. 21 pl. 5 fig. 28.
1841 *cuneiformis* Gory IV p. 290 pl. 48, fig. 284.
1841 *cyanella* Gory IV p. 290 pl. 47 fig. 278.
1841 *bivittata* Gory IV p. 292 pl. 49 fig. 286.
1846 *scoriacea* Melsheimer p. 148.
1848 White p. 41.
1857 *scoriacea* Mels.=*cyanella* Gory, Leconte p. 9.
1857 *cuneiformis* Gory, Leconte p. 9.
1857 *bivittata* Gory, Leconte p. 9.
1857 *Agrilus* Lacordaire p. 84.

1859 Leconte p. 210, 217.
1859 *cyanella* Leconte p. 216.
1870. Pettit p. 102.
1873 *cuneiformis* Gory=*quercata* Fab., Crotch p. 89.
1873 bivittatus Gory, Leconte p. 331.
1878 Schwarz p. 451.
1878 Hubbard-Schwarz p. 656.
1878 *cyanella* Hubbard-Schwarz p. 656.
1880 Zesch-Reinecke p. VII.
1880 *cyanella* Zesch-Reinecke p. VII.
1882 Horn p. 110.
1886 *cyanella* Gory=*quercata* Fab., Roberts p. 16.
1889 Chittenden p. 220.
1889 Blanchard p. 31.
1890 Packard p. 354.
1892 Kerremans p. 126.
1895 Hamilton p. 364.
1896 Castle-Laurent p. 305.
1901 Fall p. 117.
1901 Scott p. 31.
1902 Ulke p. 21.
1902 *cyanella* Ulke p. 21.
1903 Kerremans p. 174.
1903 *viridicornis* var. Say, Kerremans p. 174.
1903 *cuneiformis* Gory, Kerremans p. 174.
1903 *bivittata* Gory, Kerremans p. 174.
1903 *cyanella* Gory, Kerremans p. 176.
1903 *scoriacea* Mels., Kerremans p. 176.
1909 Blatchley p. 789.
1909 *cyanella* Wickham p. 23.
1909 Smith p. 293.
1913 Manee p. 170.
1913 Woodworth p. 195.
1914 Obenberger p. 17.
1916 Van Dyke p. 405.
1917 Chagnon p. 218.
1918 Dozier p. 331.
1918 Blackmann pt. I p 20, 36, 85 pl. 7 fig. 22.
1919 Nicolay p. 18.
1920 Frost p. 28.
1920 Knull p. 6.
1920 Britton p. 244.
1922 Wellhouse p. 1108.
1922 Knull p. 82.
1925 *cyanella* Fisher p. 169.

Type locality: North America.
Distribution: Massachusetts to Florida, west to Montana and Texas.
Connecticut: Pleasant Valley VII-1 (c).
Massachusetts: Framingham X-28 (c); West Port VII-30 (c).
New York: :Stanton Isl. (4); Long Island VI-VII (19).
New Jersey: De Costa (4); Lakehurst (4); Ft. Lee V-25 (4); Palisades (4); Spotswood (4); Cleumonter VII-15 (8); Cape May V-28 (8).
Pennsylvania: Jannette (3); Allegany (13); Hummelstown V-30 (20); Charter Oak.
Maryland: Blandsburg (10); Gt. Falls V-18 (10).
D. of C.: Washington V-20 (10).
Rhode Island: Barrington VI-25 (c).
Virginia: Norfolk VI-12 (9); Carters Bridge V-25 (10); Falls Church (10).
N. Carolina: Tyron (10); Hereford Co. VI-9 (9).

Georgia: Tifton (8); Macon (10).
Florida:: Enterprise V-20 (8); Kissimmee (9); Tampa IV-5 (10); Monticello (10); Gainsville III-27, IV-15 (Dozier).
Alabama: Spring Hill V-29 (11).
Louisiana: Opelousas IV-24 (8).
Texas: Columbus III-6 (10).
Arkansas:
Missouri: St. Louis V-19 (10).
Kentucky:
Ohio: Cincinnati VI-25 (11).
Illinois: Edgebrook VI-25 (c); Riverside V-14 (c).
Iowa: Ames.
Montana: Columbia Falls VIII-13 (10).
Host: Bred from oak and chestnut twigs, Black oak *(Q. velutina)*, lodgepole pine *(P. murrayana)*, grape *(Vitis sp.)*, red bud *(Cercis canadensis)*, white pine *(P. strobus)*, larch *(Larix americana)*, *(Crataegus coccinea)*.

RETIFER Lec., See AENEOGASTER Laporte-Gory

185. SALICIS Fabricii (9398)
(Introduced Species)

1781 *Buprestis* Fabricii p. 237.
1790 *Buprestis* Oliver p. 79 pl. 2 fig. 13.
1801 *Buprestis* Fabricii p. 216 No. 163.
1801 *Buprestis* Herbst p. 240 pl. 147 fig. 6-7.
1805 Illiger p. 95 No. 163.
1817 Schonherr p. 253, 262.
1833 Solier p. 298.
1841 Laporte-Gory II p. 12 pl. 3 fig. 14.
1865 Marseul p. 242.
1882 Horn p. 107.

Type locality: Europe.
Distribution: In the United States this species has been taken only at Smoky Hill, Kansas.
Host: Taken on the flowers of a Malvaceous plant.

NOTE—This is an introduced species and there has been no attempt to give a complete list of the European references. See Schonherr 1817, p. 262, for a list of the early references.

SCORIACEA Mannerheim, See QUERCATA Fabricii

SINUALA Casey, See AENEOGASTER Laporte-Gory

STRIGATA Leconte, See AENEOGASTER Laporte-Gory

SUBAENEA Leconte, See VIRIDIFRONS Gory

186. SUBLAEVIS Van Dyke (9393)

1916 Van Dyke p. 406.
1917 Chamberlin p. 135.

Type locality: Tuolumne Co., California.
Distribution: Northern California (Siskiyou, Shasta, Tuolumne and Tulare Counties).
Hosts: Unknown.

187. VIRIDICORNIS Say (9395)

1823 Say p. 162.
1836 Say p. 161.
1837 Dejean p. 91.
1841 Laporte-Gory II p. 19 pl. 5 fig. 25.
1857 Leconte p. 9.
1859 Leconte p. 216.
1877 Hubbard p. 40.
1878 Schwarz p. 451.
1878 Hubbard-Schwarz p. 656.
1882 Horn p. 110.
1883 Leconte p. 594.
1884 Harrington p. 71, 101.
1884 Harrington p. 35.
1885 Harrington p. 31.
1886 Roberts p. 16.
1889 Tolman p. 343.
1889 Chittenden p. 220.
1890 Packard p. 293.
1892 Kerremans p. 129.
1892 Hopkins p. 258.
1893 Hopkins p. 181.
1895 Hamilton p. 364.
1901 Scott p. 31.
1902 Young p. 157.
1902 Ulke p. 21.
1903 Kerremans p. 173.
1908 Knaus p. 91.
1909 Smith p. 292.
1909 Wickham p. 23.
1912 Frost p. 305.
1914 Obenberger p. 17.
1917 Chagnon p. 218.
1922 Knull p. 82.
1924 Rhodes p. 67.
1924 Blackmann & Stage pp. 19, 21, ,24, 256.
1925 Fisher p. 169.

Type locality: Missouri.
Distribution:: Ontario to North Carolina, west to Colorado and Texas.
Maine: Paris (15).
New York: Newport (Young); Stanton Island (4); Buffalo (4); West Point VII-7 (c).
Pennsylvania: Jannette VI-10, VIII-4 (3); Harrisburg V (Knull).
New Jersey: Spotwood (4); Ft. Lee VI-18 (c).
N. Carolina: Southern Pines V-14 (c).
D. of C.: Washington V-25 (10), VI-11 (4).
Illinois: McBride (4).
Arkansas: Murfreesboro (9).
Ohio: Cincinnati (11).
Michigan: Detroit VI (10).
Iowa: Iowa City (W); Fairfax (10).
Misouri: St. Louis V-19 (10).
Texas (1).

Colorado:
Medicine Bow Nat. Forest: Dug from Douglas Fir VI-17 (10).
Hosts: Willow *(Salix sp.)*, and Elm *(Ulmus sp.* Adults taken feeding on Elm, Willow and hickory.
Season: May (N. C.), June (Kan.).

188. VIRIDIFRONS Gory (9392)

1837 Dejean p. 91.
1841 Gory IV p. 284 pl. 47 fig. 277.
1857 Leconte p. 9.
1859 Leconte p. 217.
1859 *subaenea* Leconte p. 216.
1870 Pettit p. 102.
1873 *subaenea* Lec.=*viridifrons* Gory, Crotch p. 89.
1877 *Agrilus* Provancher p. 360.
1878 Leconte p. 459.
1878 Hubbard-Schwarz p. 656.
1882 Horn p. 109.
1884 Harrington p. 71.
1884 Harrington p. 35.
1886 Roberts p. 16.
1889 Chittenden p. 220.
1889 Blanchard p. 31.
1890 Packard p. 229, 292.
1892 Kerremans p. 129.
1895 Hamilton p. 364.
1897 Slosson p. 238.
1902 Webster-Newell p. 84.
1902 Ulke p. 21.
1903 Kerremans p. 172.
1906 Felt p. 715.
1909 Wickham p. 23.
1909 Blatchley p. 787.
1909 Smith p. 292.
1911 Gibson p. 12.
1912 Gibson p. 100.
1912 Frost p. 305.
1914 Obenberger p. 17.
1916 Van Dyke p. 406.
1917 Gibson p. 149.
1917 Chagnon p. 218.
1920 Knull p. 6.
1920 Britton p. 244.
1922 Knull p. 82.
1924 Rhodes p. 69.
1924 Blackmann and Stag pp. 14, 19, 21, 22, 23, 24, 25, 256.

Type locality: America (exact locality unknown).
Distribution:: Ontario and New England States west to Indiana and Iowa (Peachland, B. C., July, Gibson p. 149).
Connecticut: Wallingford IV-24 (14); West Rock IV-29, V.1 (14).
New York: Stanton Island (4); Buffalo (4); West Point VI-7 (c).
New Jersey: Spotswood (4).
Pennsylvania: Germantown (10); Harrisburg (10); Jannette V-30 (3).
Maryland: Great Falls V-8 (10).
D. of C.: Washington V (10).
North Carolina: Tyron (10).
West Virginia: Kanawha (10).
Florida: Tampa IV-19 (10).
Ohio: Cincinnati VI-1 (11).
Iowa: Iowa City (W); Fairfax (W); Ames VI-24 (c).
Michigan: Detroit VI (10).

Illinois: Edgebrook VII-20 (9); Chicago VI-30 (13); Riverside VI-19 (c).
Missouri: St. Louis (13).
Texas: Columbus V-20 (10).
California: Sierra Madra (13); Castle Crag (13); Mt. Lowe (13); McCloud (13); San Rafael V-7 (9).
Canada: Montreal, Que. VI-6 (c); Peachland, B. C. VII (Gibson); Manitoba (Gibson).
Hosts:: Bred from Shag bark hickory *(Hickoria ovata)* and elm *(Ulnus americana)*, and reported from willow *(Salix sp.)* and grape *(Vitis sp.)*.

Genus *BRACHYS* Solier

1833 Solier, p. 312.
Type of the genus **TRACHYS TESSELLATA** Fab.

189. AEROSA Melsheimer (9572)

1846 Melsheimer p. 148.
1859 Leconte p. 252.
1869 Glover p. 92.
1870 *terminans* Gory, Pettit p. 102.
1873 Crotch p. 96.
1874 Le Baron p. 96.
1874 *aerosa* Mels.=*terminans* Gory, Henshaw p. 17.
1878 *aerosa* Glover pl. XI fig. 36.
1878 Hubbard-Schwarz p. 656.
1880 Zesch-Reinecke p. VII.
1884 Smith p. 76.
1887 Cook p. 59.
1887 Gillette p. 138.
1889 Chittenden p. 221.
1890 Packard p. 205, 469.
1892 *aerosus* Mels.=*terminans* L.-G., Kerremans p. 289.
1892 Laurent p. 37.
1893 Townsend p. 202.
1894 Harrington p. 15.
1897 Harrington p. 71.
1898 Cockerell p. 152.
1901 Scott p. 31.
1903 Evans p. 291.
1902 Ulke p. 22.
1903 Knaus p. 176.
1903 Kerremans p. 325
1903 *aerosus* Mels.=*terminans* Gory, Kerremans p. 325.
1904 Gibson p. 52.
1906 Felt p. 512.
1907 Fall-Cockerell p. 181.
1907 Patch p. 271.
1909 Easton p. 50.
1909 Smith p. 296.
1909 Schaeffer p. 377.
1909 Wickham p. 23.
1909 Blatchley p. 806.
1911 Morris p. 49.
1911 Watson p. 100.
1913 Manee p. 170.
1915 Johnson p. 312.
1916 Morris p. 19.
1917 Chagnon p. 218.
1917 Burke pl. VI fig. 3.
1918 Weiss-Nicolay p. 128-130.
1919 Nicolay p. 20.
1919 Weiss-Nicolay p. 86-88.
1920 Britton p. 245.
1920 Weiss p. 9.
1922 Wellhouse p. 1066.

1923 Nicolay-Weiss p. 71.
1924 Hatch p. 571.
1924 Felt p. 303.
1925 Chapin p. 33.

Type locality: Pennsylvania.

Distribution: Canada to Florida, west to the Rocky Mountains, and Texas.

Montreal, Que. (2).

New Jersey: Englewood (8); Hewitt (4); Framingham, Mass. VI-1 (14).

New York: West Point VII-4 (c); Kolonah VI (8); Stanton Isl. (4); Long Isl. (19).

Pennsylvania: Angora (2); Levington (7); Portage V-16 (8); Hummelstown V-11 (8); Charter Oak (10).

Maryland: Baltimore (c).

North Carolina: Black Mts. VI-20 (8); Tyron V-15 (10).

Virginia: Round Hill X-2 (10).

Indiana: New Judson V-30 (17).

Illinois: Galesburg (2).

Wisconsin: Polk Co. VII (3).

Michigan: High Island, Thumb Lake VII-6, VII-26 (Hatch).

Minnesota: Duluth (7).

Missouri: St. Louis V-10 (2).

Kansas: (4).

Michigan: (4).

Iowa: Fairfax (W).

Colorado: Durango VI-8 (2).

Montana: (16).

New Mexico: Near Albuquerque (Watson); Gallinas Can. (24).

Texas: La Grande (10).

Utah: North Springs, Iron Co. VI-10 (16).

Host:: Bred from the leaves of basswood *(Tilia americana)*, hazel *(Corylus rostrata)*, elm *(Ulmus americana)*, poplar *(Populus sp.)*, oak *(Quercus prinus)*, beech *(Fagus sp.)*, grape *(Vitus sp.)*, hickory *(Hickoria sp.)*, iron wood *(Carpinus caroliniane)*, chestnut *(Castenea dentata)*, and Huckleberry tree *(Vacinium arboreum)*. Adults feed on leaves of *Crataegus pinetata*.

Season: May to July.

189a. Variety RUFESCENS Nicolay and Weiss

1923 Nicolay & Weiss p. 72.

Type locality: Not designated.

Distribution: Follows that of *aerosus*.

190. AERUGINOSA Gory (9573)

1841 Gory IV p. 335 pl. 56 fig. 329.
1857 Leconte p. 9.
1859 Leconte p. 252.
1870 Pettit p. 102.
1872 Chambers p. 124.
1873 Packard p. 247.
1881 Packard p. 130.
1889 Walsingham p. 79.
1889 Townsend p. 233.
1889 Blanchard p. 32.
1890 Packard p. 519.
1892 Kerremans p. 290.
1893 Townsend p. 202.
1895 Hamilton p. 364.
1896 Horn p. 247.
1896 *horni* Kerremans p. 324.
1896 *horni* Kerr.=*aeruginosa* Gory, Horn p. 247.
1897 Castle p. 8.
1897 Harrington p. 70.
1902 Young p. 158.
1902 Ulke p. 22.
1903 Kerremans p. 326.
1906 Felt p. 703.
1909 Blatchley p. 806.
1909 Smith p. 296.
1909 Easton p. 50.
1911 Gibson p. 11.
1911 Gibson p. 100.
1917 Chagnon p. 218.
1919 Nicolay p. 20.
1920 Britton p. 245.
1922 Knull p. 86.
1923 *horni* Kerr.=*ovatus* Web., Nic. & Weiss p. 68.
1923 Nicolay & Weiss p. 73 pl. XI fig. 8.

Type locality:
Distribution: Manitoba to Florida, west to Indiana, Michigan and Kansas, south to Texas.
New York: Long Island VI, VII (19).
New Jersey: Atco VII-4 (8).
Pennsylvania: Abington (2); Philadelphia VI-19 (8); Jannette VI-10 (3); Hummelstown (Knull).
Illinois: Beverly Hills VI-29 (c); Galesburg (2).
Alabama: Mobile VI-10 (2).
Virginia: Cobhorn (16).
Iowa: Sioux City VI-14.
D. of C.: Washington (10).
Kansas: (4), Wisconsin (16), Texas (16).
Host: Mines the leaves of elm *(Ulmus americana)*, iron wood *(Carprinus sp.)*, hickory *(Hickoria sp.)*, beech *(Fagus ferne)*, *(F. ferruginea)*.
Season: August (Canada).

AURULENTA Kirby, See OVATA Weber

191. BARBERI Fisher

1924 Fisher pp.12-13.

Type locality: Williams, Arizona.
Distribution: Arizona and New Mexico.
Arizona: Williams, May, June and July.
New Mexico: Los Vegas, Hot Springs, Aug. 3 (10).

BELLPORTI N. and W., a Var. of OVATA Weber

BLATCHLEYI N. and W., a Var of FLORICOLA Kerremans

192. CEPHALICA Schaeffer (9571)

1909 Schaeffer p. 377.
1923 Nicolay-Weiss p. 64 pl. XI fig. 2.

Type locality: Huachuca Mts., Arizona.
Distribution: Arizona.
Arizona: Nogales VIII-17 (16); Huachuca Mts. VII-9 (c).

CORVINA Gory, See TESSELATA Fabricii

CUPRESCENS Blatchley (9576), See FLORICOLA Kerremans

193. FASCIFERA Schwarz (9569)

1878 Schwarz p. 363, 452.
1892 Kerremans p. 290.
1896 Castle-Laurent p. 303.
1903 *fasciferus* Kerremans p. 326.
1909 Schaeffer p. 377.
1923 Nicolay-Weiss p. 70.

Type locality: Tampa, Florida.
Distribution: Georgia, Florida and Alabama.
Florida: St. Augustine IV (2); Enterprise IV-20 (2); Marion Co. (c); Kissimmee (8); La Belle IV (Knull); Duneton IX; Tampa IV-26 (11); Orange Co. (10); Cedar Key (10); Aurora IX-17; Jacksonville VI-6 (10); Ft. Myer IX-13; Jupiter V-2 (19); Lake Mary (2).
Alabama:: Mobile IV-23 (2).
Georgia: (Leng).
Host: Live oak *(Quercus virens)*.

194. FLOCCOSUS Mannerheim (9575)

1837 Mannerheim p. 118.
1889 Waterhouse p. 131.
1909 Schaeffer p. 377.
1922 Fisher pp. 43, 46.
1923 Nicolay-Weiss pp. 62-63 pl. XI fig. 1.

Type locality: Oaxaca, Mexico.
Distribution: Arizona, Mexico and Guatamala.
Arizona: Huachuca Mts., June, July,, Aug. (8), (1); Parmerlee VI-27 (c).
Host: Oak *(Quercus sp.)*.

195. FLORICOLA Kerremans (9570)

1900 Kerremans p. 347.
1913 *cuprescens* Blatchley p. 23.
1918 *cuprescens* Dozier p. 331.
1921 *cuprescens=floricola* Nicolay p. 175.
1923 Nicolay-Weiss p. 66 pl XI fig. 4.

Type locality: Florida.
Distribution: Florida and Georgia.
Florida: Enterprise (c); Sanford, Ormond (Blatchley); Gainsville III-24, IV-14 (Dozier); St. Augustine (Frost); Miami, Jacksonville, Tampa (4); Key West (19).
Georgia: Billy's Island (4).
Host: Taken on flowers of huckelberry *(Vaccinus arborcum)*.

195a. BLATCHLEYI Nicolay-Weiss

1923 Nicolay-Weiss p. 67.
1919 *lugubris* Lec., Blatchley p. 30.

Type locality: Florida.
Florida:: Dunedin III-11 (Blatchley); Lake Lucy III-22; Orland.

HORNI Kerremans, See AERUGINOSA Gory

LAEVICAUDA Leconte, a Variety of OVATA Weber

LUGUBRIS Leconte, See TESSELLATE Fabricii

MOLESTA Gory, See OVATA Weber

196. OVATA Weber (9574)

1801 *Buprestis ovata* Weber p. 76 No. 8.
1801 Herbst p. 245 No. 163 pl. 156 fig. 1.
1802 Illiger p. 248.
1825 *Trachus* Say p. 252.
1836 *Metonius ovata* Say p. 164.
1837 *T. aurulenta* Kirby p. 162.
1841 *terminans* L. & G. (error) II p 3 pl. 1 fig. 5.
1841 *molesta* Gory IV p 332 pl 55 fig. 325.
1841 *tessetatus* Laporte-Gory II p. 3 pl. 1 fig. 2.
1846 Strum p. 63.
1857 *Trachys ovata* Lecordaire p. 87.
1857 *molesta* Gory, Leconte p. 9.
1859 Leconte p. 251.
1869 *terminans* L. & G., Glover p. 92.
1870 Pettit p. 102.
1870 *terminans* L. & G., Pettit p. 102.
1872 *Trachys aurulenta* Bethune p. 35.
1873 *laevicauda* Lec.= *ovata* Web., Crotch p. 96.
1873 *punctata* Gory=*M. ovatus* Say, Crotch p. 10.
1874 Henshaw p. 17.
1874 Le Baron p. 96.
1877 Provancher p. 361.

1878 Schwarz p. 363, 452.
1878 Hubbard-Schwarz p. 656.
1879 Harrington p. 119.
1880 Zesch-Reinecke p. VII.
1884 Smith p. 76.
1887 Gillette p. 138.
1887 Cook, p. 59.
1889 Chitenden p. 221.
1889 Waterhouse p. 132.
1890 Packard p. 205.
1892 *tesselatus* L. & G.=*ovatus* Web., Kerremans p. 291.
1893 Townsend p. 202.
1896 Bowditch p. 6.
1896 Castle-Laurent p. 303.
1897 Harrington p. 70.
1897 *terminans* Gory, Harrington p. 71.
1897 Castle p. 8.
1902 Young p. 157.
1902 Ulke p. 21.
1903 Kerremans p. 325.
1903 *aurulenta* Kby., Kerremans p. 325.
1903 *molestus* Gory, Kerremans p. 325.
1903 *Pachyscelus ovatus Web.*, Kerremans p. 320.
1903 *P. laevigatus* Say = *ovatus* Weber, Kerremans p. 320.
1903 *P. punctata, ovatus* Web., Kerremans p. 320.
1906 Felt p. 506, 513.
1907 Fall-Cockerell p. 181.
1909 Blatchley p. 806.
1909 Easton p. 50.
1909 Wickham p. 23.
1909 Smith p. 296.
1909 Schaeffer p. 377.
1912 Beal p. 62.
1912 Leng p. 193.
1912 Davis p. 305.
1913 Manee p. 171.
1913 Blatchley p. 23.
1914 Davis-Leng. p. 267.
1915 Johnson p. 312.
1916 Morris p. 19.
1917 Chagnon p. 218.
1918 Weiss-Nicolay p. 128-130.
1919 Davis p. 112.
1919 Nicolay p. 20.
1919 Weiss-Nicolay p. 86-88.
1920 Weiss p. 9.
1920 Britton p. 245.
1922 Knull p. 86.
1923 Nicolay & Weiss p. 68 pl. XI fig. 5.
1924 Fisher p. 13.
1924 Felt p. 303.

Type locality: America.

Distribution: Quebec to Florida, west to the Rocky Mountains and Texas.

Massachusetts: Brookline (13); Framingham V-31 (14).
New York: West Point V-28 (c); Buffalo (4).
New Jersey: Lakewood (4); Orange (4).
North Carolina:: So. Pines (Manee).
Georgia: Clayton 3700 ft. (4).
Florida: Kissimmee VI-20 (10); Jacksonville (4); St. Augustine (2); Lake Mary (2).
Iowa: Ames (W); Iowa City (W); Elmo (W).
Indiana: North Judson VI-30 (10).
Montana: Bitter Root Nat. Forest (1).
Colorado: Glenwood Springs VIII (13).

Arizona: Prescott (10); Williams VII-17 (10).
New Mexico: Beulah (1).
Host: Scrub or Turkey oak *(Quercus castebaei)*, beech *(Fegas sp.)*.

196a. Variety BELLPORTI Nicolay and Weiss

1923 Nicolay & Weiss p. 70.
Type locality: Bellport, New York.
Distribution: Vermont, Massachusetts, New York and Pennsylvania.

196b. Variety LAEVICAUDA Leconte

1859 Leconte p. 252.
1873 Crotch p. 96.
1873 *laevicauda* Lec.=*tesselata* Fab. (Gory) Leconte p. 333.
1892 *laevicauda* Lec. = *tesselatus* Fab., Kerremans p. 290.
1906 Felt p. 512.
1920 *laevicauda* Lec.=*tessellata* C. & G., Leng p. 184.
1923 *laevacauda* Lec.=*ovatus* Web., Nicolay & Weiss p. 68.

Type locality: Pennsylvania.
Distribution: Northeastern states, west to Wisconsin.
Pennsylvania: Angora (2); Chestnut VIII (2); Virginia (4).
Florida: Jacksonville (2); St. Augustine (2).
Massachusetts: Boston (2)
Missouri: St. Louis (2).
Wisconsin:: Beaver Dam VI-10 (c).
Host:: Taken on pine.

197. PRAETEXTA* Gory

1841 Gory p. 332.
1873 Leconte p. 333.

Type locality:: United States.
Distribution: St. Louis, Mo. (10); Jannette, Pa. VI (3).
Host: Unknown.

No. 198 omitted through error.

TERMINANS Gory, See OVATA Weber

*Synonym of *ovata* Web., according to Leng's catalogue. According to Nicolay-Weiss, 1923, p. 75, the description of *praetexta* was never published.

199. *TESSELLATA Fabricii (9568)

1801 *Trachys tessellata* Fabricii p. 218 No. 1.
1805 Illiger p. 96 No. 1.
1805 *Trachys* Illiger p. 96 No. 1.
1817 Schonherr p. 265 No. 1.
1821 *Trachys* Dejean p. 30.
1833 *Trachys* Solier p. 313.
1836 Say p. 164.
1841 Laporte-Gory II p. 3 pl. 1 fig. 2.
1841 *corvina* Gory II p. 3.
1843 Strum p. 63.
1844 *Taphrocerus tessellate* Melsheimer p. 148.
1857 Leconte p. 9.
1859 *lugubris* Leconte p. 251.
1873 *lugubris* Lec.=*tesselate* Fab., Crotch p. 96.
1873 *corvina* Gory=*lugubris* Lec., Leconte p. 333.
1878 Schwarz p. 364, 452.
1881 Packard p. 130.
1883 Leconte p, 598.
1884 Leng. p. 76.
1892 *laevicauda* Lec. = *tessellatus* Fab., Kerremans p. 291.
1894 Hamilton p. 252.
1895 Hamilton p. 364.
1897 Castle p. 8.
1903 Kerremans p. 325.
1903 *lugubris* Lec., Kerremans p. 326.
1903 *laevicauda* Kerremans p. 325.
1909 Smith p. 296.
1919 Davis p. 112.
1912 *lugubris* Knull p. 86.
1919 *lugubris* Blatchley p. 30.
1922 Knull p. 86.
1923 Nicolay & Weiss p. 64 pl. XI fig. 6.
1925 Good p. 272 figs. 35, 36.

Type locality: Exact locality not known "Bor. Amer."
Distribution: New Jersey to Florida.
Florida: Jacksonville (2); Lake Mary (C); Miami (8); Tampa IV-10; Crescent City (8); Key West (19).
North Carolina: So. Pines V-4 (X); Manley (4); Welmington VIII-1 (4).
South Carolina: Beaufort IV-29 (9).
Georgia: Savannah (2); Jessup IV-29 (10).
Host: Scrub oak *(Quercus castesbaei)*.

TESSELATUS Cast and Gory, See OVATA Weber

Genus *BUPRESTIS* Linn

1758 Linne p. 410.
1760 Linne p. 408.

Type of the Genus **BUPRESTIS OCTOGUTTATA** Linn.
ANCYLOCHERA Eschscholtz 1829 p. 9.
ANOPLIS Kirby 1837 Vol. 4 pp. 151-154.

ACICULATA Dejean, See APRICANS Herbst

ACOMANA Casey, See RUSTICORUM Kirby

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*In some editions this name was spelled *tassellata* and later *tessellatus*.

200. ADJECTA Lec. (9362)

1854 Leconte p. 17.
1857 Leconte p. 43.
1857 Lacordaire p. 41.
1859 Leconte p. 210.
1873 Crotch p. 88.
1890 Packard p. 681.
1898 *adjectus* Cockerell p. 151.
1899 Wickham pt. 7 p. 236.
1901 Fall p. 116.
1902 Kerremans p. 141.
1907 Fall-Cockerell p. 179.
1909 Casey p. 118.
1909 *intricata* Casey p. 118.
1909 *brevis* Casey p. 117.
1911 *adjectus* Gibson p. 114.
1917 Chamberlain p. 133.
1918 Nicolay-Weiss p. 84.
1918 Garnett p. 91.
1918 Burke p. 337.
1924 Chamberlin p. 187.
1924 Wallace p. 15.

Type locality: Oregon.

Distribution: British Columbia, south through the Rocky Mountains and Pacific Coast States to New Mexico.

British Columbia: Vancouver, Field VIII-1 (17). Peachland.

Washington: Key Port VII (10); Olympia (2).

Oregon: Rogue Riv. Val. 2000 ft. (13); Josephine Co. VIII-20 (10); No. Powder (10); Battle Ax Mt. VIII-20 (c); Pt. Orford (10); Newberg (4); Dilly (4); Ft. Klamath (17); Corvallis VIII-16 (c).

California: Weed 7-20 (c); McCloud VIII-14 (13); Vade (10); Bray (10); Pyramid R. S. (10); Yosemite (10); Tahoe (10); Mineral King VIII-6 (11); Tallac 6300 VIII-16; Deer Park (13).

Colorado: Leadville VI (2); Manitou, Colorado Springs, Bullion Peak VIII-19 (3).

New Mexico: Gallinas Can. (20).

Wyoming: Yellowstone N. P. VII-1 (10).

Utah: Beaver Foot Range Can. (4).

Nevada: (17).

Hosts:: Yellow pine *(Pinus ponderosa)*, jeffreyi pine *(P. jeffreyi)*, Lodge pole pine *(P. contorta?)*, Douglas Fir *(Pseudotsugae taxifolia)* (10), Red Fir *(Abies magnifica)* (10).

ADJECTUS Gibson, See ADJECTA Leconte

ADONEA Casey, See SUBORNATA Lec.

ADDUCTA Casey, See RUSTICORUM Leconte

ADULANS Casey, See AURULENTA Linne

AEMULA Casey, See AURULENTA Linn.

AFFINIS Casey, See AURULLENTA Linne

AGUSTA Casey, See FASCIATA Fabricii

ALTERNANS Leconte, a Variety of NUTTALLI Kirby

201. APRICANS Herbst. (9364)

1801 Herbst p. 125 pl. 67 fig. 9.
1817 Schonherr p. 250.
1826 *nigricornis* Strum p. 105.
1837 *aciculata* Dejean p. 88.
1838 *bosci* Laporte et Gory II p. 146 pl. 36 fig. 201.
1843 *Anhylocheira bosci* Wht., Strum p. 59.
1848 *boscii* White p. 24.
1857 *bosci* L.-G., Leconte p. 8.
1859 Leconte p. 210 pl. 36 fig. 201.
1873 Leconte p. 331.
1884 Lugger p. 203.
1902 Kerremans p. 141.
1904 Hopkins p. 39.
1909 Casey p. 128.
1909 *cribripennis* Casey p. 127.
1909 Hopkins p. 62.
1909 Smith, J. p. 291.
1910 Burke p. 411.
1913 Manee p. 162.
1913 Woodworth p. 195.
1918 Nicolay-Weiss p. 88.
1918 Burke p. 337.
1922 Knull p. 81.
1925 Fisher pp. 147-148.

Type locality: "America."
Distribution:* New Jersey to Florida, west to Texas, Cuba..
Massachusetts: A specimen collected in a piano factory (Coll. Bost. Soc. Nat. Hist.).
North Carolina: Raleigh (10); Boardman (10);; So. Pines IV-25, V-25 (c).
South Carolina: Nichels IV-26 (10).
Pennsylvania: Frankford and Tideout (probably imported in lumber, Knull).
Alabama: Grand Bay III (2).
Georgia: Okefenohee Swamp VI (4).
Florida: Deep Lake IV-20 (4); Jacksonville (10).
Louisiana: Vowell's Mills (4).
Nebraska: Lincoln (10).
Texas: Doucette, Tyler Co. (9).
Hosts: Short-leaf pine *(Pinus echinata)*, pitch pine *(P. rigida)*, loblolly pine *(P. teada)*, and long-leaf pine *(P. palustris)*.

202. AURULENTA Linn (9361)

1767 Linne p. 661.
1788 Linne p. 1933 No. 10.
1790 Rossius p. 186 No. 461.
1790 Oliver p. 18 pl. 9 fig. 98.
1801 Herbst p. 129.
1805 *B. aurulenta* Rossius is *B. austrica* Illiger p. 91.
1805 Illiger p. 93.
1809 Panzer Heft. 101 p. 10.
1817 Schonherr p, 221, 223, 240.
1823 Say p. 160.
1837 *bicostata* Dejean p. 88.
1841 Laporte et Gory II p. 146 pl. 36 fig. 200.

*NOTE—Leconte p. 331 (1873) "A specimen was collected in California by Lorquin."

1848 White p. 24.
1854 *radians* Leconte p. 17.
1854 *lauta* Leconte p. 17.
1857 Leconte p. 44.
1857 Leconte p. 8.
1857 Lacordaire p. 41.
1857 *radians* Lacordaire p. 41.
1857 *lauta* Lacordaire p. 41.
1858 Fitch p. 703.
1859 *bicostata* Leconte p. 210?
1859 Leconte p. 210.
1866 *aurulentum* Walker p. 322.
1869 Harris p. 224-225.
1873 Crotch p. 88.
1873 *lauta* Crotch p. 88.
1873 *radians* Crotch p. 88.
1873 *villosa* Leconte p. 331.
1878 *lauta*, *radians* Glover pl. 44 fig. 37 & pl. 20 fig. 4.
1886 Horn p. 137.
1888 Holland p. 91.
1888 *lauta* Holland p. 91.
1890 Packard p. 681.
1890 Fleutiaux and Salle p. 405.
1898 *lautus* Cockerell p. 151.
1901 Fall p. 116.
1902 Kerremans p. 141.
1902 *lauta* Lec., Kerr. p. 141.
1902 *radians* Lec., Kerr. p. 141.
1902 *adjecta* Lec., Kerr. p. 141.
1903 *villosa* Lec., Kerremans p. 143.
1904 Hopkins p. 39.
1906 Evans p. 98.
1907 Fall-Cockerell p. 179.
1908 Heyne-Taschenberg p. 138.
1908 *lauta* Wright-Coolidge p. 67.
1909 Casey p. 120.
1909 *adulans* Casey p. 123.
1909 *aemula* Casey p. 121.
1909 *villosa* Lec., Casey p. 114.
1909 *fabulosa* Casey p. 119.
1909 *venusta* Casey p. 122.
1909 *radians* Lec., Casey p. 120.
1909 *tacomae* Casey p. 121.
1909 *affinis* Casey p. 123.
1909 *nupta* Casey p. 122.
1909 *prospera* Casey p. 123.
1909 Burke p. 412.
1911 *lauta* Watson p. 81.
1912 Beal p. 43.
1913 *lauta* Woodworth p. 195.
1914 Bush p. 59.
1915 Huguenin p. 364.
1917 Burke p. 87.
1917 Chamberlin p. 133.
1918 Nicolay-Weiss p. 82.
1918 Garnett p. 90.
1918 Burke p. 337.
1918 *villosa* Lec., Burke p. 337.
1918 *lauta* Lec., Burke p. 337.
1924 Chamberlin p. 187.
1925 Fisher p. 151-152.

Type locality: "Boreal America."

Distribution: Pacific Coast and Rocky Mountain States.

British Columbia: Kamloops (4); Priest River VI-21 (c); Victoria VII-20; Vancouver Island VIII-17; Calspooia Mts. 1600 ft. VIII-11; Beaver Mouth VII-14.

Washington: Key Port VII (10); Hoquiam VII-20 (10); Kent VI-29 (10); Tacoma (4); Port Townsend VII (10); Seattle VII.

Oregon: Rogue River VII (c); Upper Klamath (10); Zena IX-7 (c); Newberg VII (c); Corvallis, Ontario, Roseburg, Sumpter, Divide, Ashland, Mary's Peak, Sulphur Springs, Dilly, Astoria, Rainier (c). Very common in Western Oregon.

California: Mt. Baldy IV-22 (7); Sequoia Park VII (7); Pacific

Grove (13); Mt. Lowe (13); Deer Park (13); Yreka (4); San Jose (10); Summerdale (10); Bray (10); Los Angeles (10); Carrrville VII-1 (15); Tulare Co. 4700 ft. VIII-1; Sylvania, McCloud VIII-2 (15).

New Mexico: Santa Fe (13); Sandia Mts. (Watson); Los Vegas (10); Gallinas Canyon.

Arizona: Flagstaff (10); Montezuma N. F. (10); Tucson VI-3 (4).

Utah, Nevada.

Wyoming: Yellowstone Park VI-21 (19).

Idaho: Centerville VII (10); Atlannta 7800 ft. VI (4); Cascade VI-22 (c).

Montana: Bitter Root Mts. (1).

Hosts: Yellow pine *(Pinus ponderosa)*, jeffrey pine *(P. jeffreyi)*, sugar pine *(P. lambertiana)*, lodgepole pine *(P. contorta)*, Monterey pine *(P. sabiniana)*, Douglas fir *(Pseudotsuga taxifolia)*, Western red cedar *(Thuja plicata)*.

BICOSTATA Leconte, See AURULENTA Linne

BISTRIONTATA Casey, See FASCIATA Fabricii

BOSCI Laporte-Gory, See APRICANS Herbst

BOULDERENSIS Casey, See ALTERNANS Leconte

BREVIS Casey, See ADJECTA Leconte

CALIGINOSA Casey, See SUBORNATA Leconte

CALLIDA Casey, See FASCIATA Fabricii

CANADENSIS Casey, See IMPEDITA Say

203. CONFLUENTA Say (9376)

1823 Say p. 159.
1824 Say p. 60.
1857 Lacordaire p. 41.
1859 *confluens* Leconte p. 206.
1878 *confluens* Glover pl. 42 fig. 9.
1903 Kerremans p. 142.
1906 *confluens* Evans p. 98.
1908 *confluens* Gibson p. 125.
1909 Casey p. 104.
1909 *tessellata* Casey p. 104 (male)
1909 Wickham p. 23.
1913 Woodworth p. 195.
1915 Kwiat p. 237.
1917 Burke p. 87.
1917 Burke p. 327.
1917 Chamberlin p. 133.
1918 Burke p. 335.
1918 Garnett p. 91.
1918 Nicolay-Weiss p. 98.
1920 Knaus pp. 66-68.
1920 *tesselata* Say, Knaus p. 66.
1920 Burke p. 75.
1924 Chamberlin p. 188.

Type locality: Missouri.

Distribution: Vancouver to Ontario in Canada; Indiana to Wyoming, California and Texas, Florida.*
Canada: Wabamun, Alta. VIII-3; Quebec (19); Mokinak, Man.; Oweme, Man. VII (2); Vancouver, B. C. (1).
Wisconsin: Beaver Dam VII-2 (c); Milwaukee (7).
Illinois: Peoria (17).
Indiana: Millers VII-6.
Michigan: Detroit VI-17 (3).
Dakota: Buff Gap (10).
Nebraska: Badger (10).
Kansas: Wallace Co. 3000 ft. (10); Edmond (Knaus); Manhattan (Knaus); Salina (Knaus).
Iowa: Ames (W).
Wyoming: Lusk VII (10).
Idaho: Coeur d'Alene VII-16.
Colorado: Littleton VI-24, VI-7 (14); Ft. Lupton (8); Denver VIII-7 (9); Crow VI-28 (Knaus).
Texas: Canadian (Knaus).
Utah: Pangvitch VII-3 (10); Carabou (1).
Oregon: Corvallis (C).
California: Lake Tahoe (15); Placerville (10); Phillips Sta (15); Clear Creek, July; Myers (10; Yosemite VIII (25).
Florida: Kissemmee VI-1 (9).
Texas: (8).
Hosts: Aspen *(Populus tremuloides), (P. deltoides).*
Elevation: 200 (Oregon); 5700-7500 (Burke).

CONICICAUDA Casey, See NUTTALLI Variety ALTERNANS Kirby

CONTORTA Casey, See ALTERNANS Leconte

CONSULARIS Gory, a Variety of NUTTALLI Kirby

204. CONNEXA Horn (9371)

1875 Horn p. 148.
1901 Fall p. 116.
1903 Kerremans p. 142.
1909 Casey p. 111.
1913 Woodworth p. 195.
1917 Chamberlin p. 131.
1917 Nicolay p. 88.
1918 Dozier p. 331.
1918 Nicolay-Weiss p. 102.
1918 Burke p. 336.
1918 Garnett p. 91.
1924 Burke p. 70.
1824 Chamberlin p. 188.
1924 Wallace p. 15, 19.
1924 Van Dyke p. 18.

*The specimen in Mr. Frank Mason's collection labeled Kissimmee, Florida, May 1, is the true *confluens*, but is probably mislabeled.

Type locality:: Owens Valley, Calif.
Oregon: Ida (10); Albee VII, VII (10); Sparta VIII-6 (c).
California: Donner Lake (15); Owens Valley (5); Weed VII-18, 28 (c).
Idaho: Centerville (10); Emmet (10).
Host: Yellow pine *(Pinus ponderosa)*, jeffrey pine? *(P. jeffreyi)*, Douglas fir *(Pseudotsuga taxifolia)*.

CRENATA Motschulsky, See FASCIATA Fabricii

CRIBRIPENNIS Casey, See APRICANS Herbst

DAVISII N. & W., a Variety of LINEATA Fabricii

205. DECORA Fab. (9365)

1775 Fabricii p. 217 No. 6.
1781 Fabricii p. 274.
1787 Fabricii p. 176.
1788 Linne p. 1927.
1790 Oliver p. 18 pl. 8 fig. 82.
1792 Fabricii p. 189.
1801 Herbst p. 128 pl. 149 fig. 8.
1801 Fabricii p. 189.
1805 Illiger p. 86 No. 19.
1817 Schonherr p. 218, 223.
1833 Solier p. 281.
1836 Say p. 160.
1837 Dejean p. 88.
1841 Laporte-Gory p. 145 pl. 36 fig. 199.
1843 *Anchylocheira* Strum p. 59.
1848 White p. 24.
1857 Leconte p. 8.
1859 Leconte p. 210.
1867 Chevrolat p. 573.
1878 Glover pl. XI fig. 14.
1883 Leconte p. 593.
1886 Horn p. 137.
1890 Fleutiaux and Salle Vol. 9 p. 405.
1893 Gundlach p. 161.
1894 Gundlach p. 19.
1901 Scott p. 31.
1902 Kerremans p. 141.
1902 Ulke p. 21.
1903 Wenzel p. 343.
1909 Casey p. 127.
1909 Smith p. 291.
1909 Wenzel p. 45.
1910 Casey p. 110.
1913 Manee p. 168.
1914 Davis p. 267.
1914 Leng-Mutchler p. 430.
1917 Leng-Mutchler p. 205.
1918 Dozier p. 331.
1918 Nicolay-Weiss p. 88.
1922 Knull p. 81.
1925 Fisher p. 148-149, 151.

Type locality: America.
Distribution: Stanton Island, New York, south to Florida, west to Arkansas and Texas. Cuba and Porto Rico.
Pennsylvania: Philadelphia (probably imported).
Virginia: Cobleam (16).
North Carolina: Wilmington (10); So. Pines IV-6, V-7 (c); Wrightsville (10); South Carolina.

Alabama: Grand Bay III, IV, V (1); Tyler Co. (10); Mobile III (10).
Georgia: Thomasville IV-1 (19).
Florida: St. Augustine (2); Steinhatchet (4); Crescent City (10); Gainesville VI-1 (c); Jacksonville (10); Big Pine Key (10); Orlando (19).
Louisiana: Vowell's Mills (4).
Arkansas: Little Rock (4).
Texas: Trinity VII-2 (10); Doucetti, Tyler Co. (9).
Host: Longleaf pine *(Pinus palustris)* and probably the other common southern pines.

DEFICIENS Casey, See MACULIPENNIS Gory

DELATATA Motschulsky, See LAEVIVENTRIS Leconte

DEPRESSA Casey, See FASCIATA Fabricii

DIRUPTAUNS Casey, See ALTERNANS Leconte

ELONGATA Casey, See RUFIPES Oliver

FABULOSA Casey, See AURULENTA Linn

206. FASCIATA Fab. (9377)

1787 Fabricii p. 177.
1788 Linne p. 1927.
1789 Linne p. 327, 340.
1790 Oliver p. 21 pl. 9 fig. 92.
1792 Fabricii p. 191 No. 23.
1801 Fabricii p. 191 No. 31.
1801 Herbst p. 162 (90) pl. 145 fig. 12.
1801 *sexmaculata* Herbst p. 163 pl. 148 fig. 5.
1805 Illiger p. 87 No. 31.
1817 Schonherr p. 220.
1817 *sexmaculata* Schonherr p. 220
1825 Say p. 259.
1837 Dejean p. 88.
1837 var. *sexmaculata* Dejean p. 88.
1837 *Anoplis* Kirby p. 153.
1838 Chevrolat p. 68.
1838 *lherminieri* Chevrolat p. 68.
1841 Laporte-Gory p. 144 pl. 35 fig. 198.
1841 *ornata* Gory IV p. 93 pl. 16 fig. 90.
1843 *langii* Mannerheim p. 237.
1843 *Anchylocheira* Strum p. 59.
1857 Leconte p. 8.
1857 *ornata* Gory, Leconte p. 8.
1857 *langii* Leconte p. 42.
1857 *langii* Lacordaire p. 41.
1857 Leconte p. 42.
1859 *sexplagiata* Leconte p. 205.
1859 *langii* Leconte p. 206.
1866 *ornata* Walker p. 324.
1870 Pettit p. 102.
1870 Jones p. 9.
1871 *Anoplis* Bethune p. 230.
1872 *Ancylocheira* Clementi p. 37.
1873 *langii* Crotch p. 88.
1873 6 *plegata* Crotch p. 88.
1873 Crotch p. 88.
1873 *A. crenata* Motsch.=*langii* Mann., Leconte p. 331.
1877 Provancher p. 350.

1877 *sexplagiata* Provancher p. 351
1878 Hubbard-Schwarz p. 636.
1878 var. *langii* Hubbard-Schwarz p. 656.
1878 Glover pl. XX fig. 1, 2, 3.
1878 var. *langii* Glover pl. 42 fig. 13, 14, 15.
1880 Zesch-Reinecke p. VIII.
1880 Horn p. 137.
1882 Leconte List No. 1.
1884 Fletcher p. 16.
1887 Harrington p. 31.
1889 Blanchard p. 30.
1890 Harrington p. 159.
1890 *langii* Harrington p. 159.
1890 Packard p. 438, 559, 599.
1890 Harrington p. 51.
1890 Fleutiaux and Salle p. 405.
1893 Hamilton p. 274.
1893 Wickham p. 2.
1894 Lintner p. 526.
1894 Slosson p. 6.
1894 Kilman p. 49.
1894 *langii* Hamilton p. 29.
1895 Hamilton p. 364.
1895 Fall p. 98.
1895 Evans p. 146.
1896 Bowditch p. 6.
1898 Cockerell p. 151.
1899 *langii* Wickham pt. 7 p. 235.
1900 Pettit p. 41.
1901 Fall p. 116.
1901 Felt p. 874.
1902 var *langii* Van Dyke p. 172.
1902 *langii* Skinner p. 40.
1902 Slosson p. 6.
1903 Kerremans p. 142.
1903 *sexmaculata* Herbst, Kerremans p. 142.
1903 *lherminieri* Chav., Kerremans p. 142.
1903 *langii* Mann., Kerremans p. 142.
1903 *sexplagiata* Lec., Kerremans p. 142.
1903 *ornata* Walk., Kerremans p. 142.
1905 Wickham p. 51.
1906 Felt p. 458, 751.
1907 Fall-Cockerell p. 179.
1908 Wright-Coolidge p. 67.
1908 Heyne-Taschenberg p. 138.
1908 McAtee p. 77.
1909 Blatchley p. 784.
1909 Smith p. 291.
1909 Casey p. 107.
1909 *depressa* Casey p. 111.
1909 *sexplagiata* Lec., Casey p. 106
1909 *fortunata* Casey p. 107.
1909 *ornata* Walk., Casey p. 112.
1909 *incolumis* Casey p. 112.
1909 *oregona* Casey p. 112.
1909 *fastidiosa* Casey p. 109.
1909 *fulgens* Casey p. 106.
1909 *obliqua* Casey p. 113.
1909 *patruelis* Casey p. 113.
1909 *levicepe* Casey p. 110.
1909 *viridimicans* Casey p. 111.
1909 *graminea* Casey p. 114.
1909 *mediocris* Casey p. 109.
1909 *seditiosa* Casey p. 110.
1909 *saturata* Casey p. 114.
1909 *angusta* Casey p. 108.
1909 *bistrinotata* Casey p. 108.
1909 *callida* Casey p. 109.
1909 *crenata* Casey (male) p. 110.
1910 *langii* Gibson p. 122.
1913 Manee p. 168.
1913 Woodworth p. 195.
1914 Sherman p. 337.
1914 Bush p. 59.
1914 *fulgens* Casey=*fasciata* Fab., Casey p. 155.
1914 *incolumis* Casey=*langii* Mann. Casey p. 155.
1914 *oregona* Cas.=*langii* Mann., Casey p. 155.
1914 Leng-Mutchler p. 430.
1914 *lherminieri* Chev., Leng & Mutchler p. 430.

1917 Chagnon p. 218.
1917 Chamberlin p. 132.
1917 *langii* Chamberlin p. 132.
1918 *langii* Mann., Burke p. 337.
1918 Nicolay-Weiss p. 102.
1918 *langii, fasciata* Garnett p. 90-91.
1918 *langii* Nicolay & Weiss p. 103.
1920 Knull p. 5.
1922 Knull p. 82.
1924 Mundinger p. 315.
1924 Burke p. 70.
1924 Chamberlin p. 188.
1924 Felt p. 304.
1925 *lherminieri* Fisher p. 155.
1925 Fisher p. 154-155.
1925 Good p. 272 fig. 4, 5.

Type locality: America (exact locality unknown).

Distribution: Nova Scotia to Georgia, from the Atlantic to the Pacific, Hudson Bay to New Mexico.

Maine: Monmouth (14).

New Jersey: Glocester Co. (8).

New York: Binghamton (9); Keene Valley IX-8 (1); Wilmington VII-6; Lake George VIII-25 (9); Ithaca (4).

Pennsylvania: Pocono Lake VII-10; Endeavor VII-12 (20); Pittsburg (3); Harrisburg, July.

Virginia: Grand Beach VI-2 (14); Cobham (1); Pennington Gap (10);; Arkny Springs (10).

North Carolina: Cranberry (17); So. Pines VIII.

Georgia: Clayton 3700 ft. (4).

Wisconsin: Douglas Co. VIII-16 (14); Keshena VII (14).

Michigan:: Boroga Co. (17); Detroit (3); Marquette VI-28, VII-9 (9); Escanaba VII-17 (10); Pt. Huron VI (10); Isl. Royal (10).

Minnesota: Waldo (17); Duluth (7).

Ohio: Cincinnati (4).

Dakota (1), Kentucky (16), Nevada (c), Montana (Evendon), Indiana (c).

Utah: Salt Lake City V-18.

New Mexico: Gallinas Can. (20); Beulah (1).

Nebraska: War Bonnet Canyon (10).

Wyoming: Cody VII (9); National Park (10).

Colorado: Manitou VI-28 (17); Glenwood Springs VIII (13);; Custer Co. 8300 ft. (W).

Arizona: Senator VII (4).

Idaho: Atlanta (19); Cascade VI-22 (c).

Washington: Tacoma (4); Hoquiam VIII-1 (10); Key Port VII (10); Des Moines (10); Seattle VI-10 (19).

Oregon: Newport VII (c); Dilly (4); Alder VIII-20 (10); Douglas Co. IX-8 (c); Corvallis V. VI, VII, VIII (c); Rainier VI (c); Astoria V (c); Detroit VIII (c).

California: San Bernardino Mts. 5000 ft. VII (4); Yreka (4); Alma (4); Sylvania (4); Castle Crag VII (13); Mohawk VII (13); Onion

Valley VIII-10 (10); Humbolt Co. 3000 ft. VII-18 (7); Quincy VI-10 (19); St. Helena, McCloud VII-2, Weed VI-7 (c); Tulare (16).
Canada: Kearney, Ont. VII-26; Toronto, Ont., Quebec, Alberta (17); Vancouver Isl., B. C. (17); Beavermouth B. C. (17); Huntsville, Ont. (8); Victoria, B. C. (9); Beaverfoot Range, B. C. (9); Mt. Robinson, B. C. VII-7 (9); Kamloops, B. C. (4); Telegraph Cr., B. C. (4); Walcott Sta., B. C. (10); Golden, B. C. (17); Manitoba (17); Sitkino River, B. C., Hudson Bay, Peachland, B. C., Nova Scotia (Kirby).
Hosts: Breeds in *Populus*, *Acer*, *Salix*, Oregon alder *(Alnus oregona)*. (Probably breeds in Douglas fir *(Pseudotsuga taxifolia)*, Abies and some Pines.)

FASTIDIOSA Casey, See FASCIATA Fabricii

FLAVIOPICTA Casey, See CONSULARIS Gory

FORTUNATA Casey, See FASCIATA Fabricii

207. FREMONTIAE Burke

1924 Burke p. 70-72.
Type locality: Northfork, California.
Distribution: Middle and Southern California.
Host:: *Fremontodendron californicum.*

FULGENS Casey, See FASCIATA Fabricii

FUSCA Casey, See SUBORNATA Leconte

FUSIFORMIS Casey, See MACULIPENNIS Gory

GRAMINEA Casey, See FASCIATA Fabricii

GRAVIDULA Casey, See ALTERNANS Leconte

208. GIBBSI Lec. (9378)

1857 Leconte p. 42.
1859 Leconte p. 205.
1901 Fall p. 116.
1902 Van Dyke p. 172.
1903 Kerremans p. 142.
1908 Wright-Coolidge p. 67.
1909 Casey p. 108.
1913. Woodworth p. 195.
1917 Chamberlin p. 131.
1918 Nicolay-Weiss p. 101.
1918 Burke p. 335.
1918*Garnett p. 91.
1920 Garnette p. 17.
1920 Burke p. 74.
1924 Burke p. 70.
1924 Chamberlin p. 188.
Type locality: Steilacoom, Washington.

*Probably *Buprestis viridisuturalis* N. and W.

Distribution: Washington, Oregon, California.
Washington: Steilacoom (Leconte).
Oregon: Corvallis VIII-15 (c); Philomath VIII-17 (c); So. Oregon (23).
California: Garberville VII-11 (c); Tuolumne Co. 4000-6000 ft. (23), (15); Nevada City (15) San Diego Co.* (15); Sonoma Co. (15); Sequoia Sta., Tulare Co.* (9); Yolo Co. (5); Yosemite Valley 4500 ft. VI-14 (10); Onion Valley 4500 ft. (23).
Colorado: Manitou VII-6.
Hosts: Bred from Calif. live oak *(Quercus californica)*, by Burke. Taken on *Q. garryana* in Oregon.

HISTORIA Casey, See SUBORNATA Lec.

IMPEDITA Say, a Variety of STRIATA Fab.

INCONSTANS Melsheimer, See LINEATA Fabricii

INCOLUMIS Casey, See FASCIATA Fabricii

INTRICATA Leconte, See ADJECTA Leconte

209. LAEVIVENTRIS Lec. (9373)

1857 Leconte p. 43.
1859 Leconte p. 207.
1873 Crotch p. 88.
1873 *A. delatata* Mots.=*laeviventris* Lec., Leconte p. 331.
1894 Fall p. 98.
1901 Fall p. 116.
1902 Van Dyke p. 172.
1903 Kerremans p. 142.
1906 Evans p. 98.
1909 Casey p. 93.
1909 *pugetana* Casey p. 94.
1913 Woodworth p. 195.
1917 Burke p. 87.
1917 Chamberlin p. 132.
1918 Burke p. 336.
1918 Garnett p. 90.
1918 Nicolay & Weiss p. 98.
1920 Rohwer p. 443, 469.
1924 Chamberlin p. 188.

Type locality: Oregon
Distribution: British Columbia, south through the Pacific Coast and Rocky Mountain States.
Washington: Tacoma VIII (4).
Oregon: Albee (10); Sumpter VII (c); Sparta VIII (c); Ashland (25).
California: McCloud VII-2 (15); Weed VII, VII (c); Tehachapi VII (7); Placerville (10); Vade (10); Shasta (1); Talac (13); Castle Crag (13); Truckee 5000 ft. VIII (4); Yosemite Valley (24).
Arizona: Flagstaff (10).
Idaho: Moscow (1); Nevada (2); Montana (4).
Hosts: *Pseudotsuga taxifolia?*, *Pinus ponderosa*, *P. lambertiana*, *P. contorta*, *P. sabiniana* and *P. radiata*.
Season: May-October.

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*Probably *B. viridisuturalis* N. and W.

LANGII Leconte, See FASCIATA Fabricii

LATERALIS Casey, See SULCICOLLIS Leconte

LAUTA Leconte, See AURULENTA Linne

LECONTEI Saunders, See RUSTICORUM Kirby

LEPORINA Casey, See MACULIPENNIS Gory

LEVICEPS Casey, See FASCIATA Fabricii

LHERMINIERI Chev., See FASCIATA Fabricii

210. LINEATA Fab. (9367)

1775 Fabricii p. 217 No. 10.
1781 Fabricii p. 275 No. 13.
1787 Fabricii p. 177 No. 18.
1788 Linne p. 1928 No. 46.
1790 Oliver p. 28 pl. 8 fig. 80.
1798 Fabricii p. 192 No. 29.
1801 Fabricii p. 192 No. 37.
1801 Herbst p. 159 No. 89 pl. 146 fig. 5.
1805 Illiger p. 87 No. 37.
1817 Schonherr p. 127, 224.
1833 Solier p. 281.
1837 *Anoplis* Kirby p. 153.
1837 Dejean p. 88.
1841 Laporte-Gory p. 143 pl. 35 fig. 196.
1843 *Ancylocheira* Strum p. 59.
1844 Melsheimer p. 146.
1848 White p. 24.
1850 Leconte p. 227.
1857 Fitch p. 705.
1859 Leconte p. 206.
1867 Chevrolot p. 578.
1869 Glover p. 91.
1871 Bethune p. 230.
1873 Crotch p. 88.
1877 Provancher p. 351.
1878 Schwarz p. 451.
1878 Glover pl XVI fig. 15.
1878 Hubbard-Schwarz p. 636.
1882 Stahl p. 171.
1886 Horn p. 137.
1889 Blanchard p. 30.
1890 Packard p. 683.
1890 Fleutiax and Salle p. 405.
1893 Gundlach p. 161.
1893 Hopkins p. 182.
1894 Gundlach p. 309.
1894 Hamilton p. 252.
1901 Scott p. 31.
1902 Ulke p. 21.
1903 Kerremans p. 141.
1903 *inconstans* Mels.=*lineata* Fab. Kerremans p. 141.
1906 Felt p. 751.
1908 McAtee p. 77.
1909 Blatchley p. 784.
1909 Casey p. 89.
1909 Smith p. 291.
1909 *scripta* Casey p. 91.
1909 *leporina* Casey p. 92.
1912 Grossbeak p. 135.
1913 Manee p. 168.
1914 Leng-Mutchler p. 430.
1917 Leng-Mutchler p. 205.
1917 Chagnon p. 218.
1918 Beal p. 6.
1918 Burke p. 335.
1918 Dozier p. 331.
1918 Nicolay-Weiss p. 94.
1919 Nicolay p. 18.
1920 Knull p. 5.
1922 Knull p. 81.
1925 Fisher pp. 146, 152-154.

Type locality: Georgia.
Distribution: Nova Scotia to Florida. west to Michigan, and Texas. Cuba, Porto Rico and Guadalupe Islands.
Canada: Brookland, B. C. (10); Terrebonne Co., Que., Toronto, Ont.
Massachusetts: Framingham (14); Lowell VII-2 (14); Dartmouth VI-13.
New Jersey: Jamesburg VIII-4; Anglesea (8); DeCosta VII-28 (8); Newark (8); Malaga VIII-4 (8); Lakehurst VII-28 (21);; Atlantic City (8).
New York: Bellport, L. I. VII-23, VIII-8 (9); Yaphank, L. I. (21); Bayshore VII-22.
Pennsylvania: Miami VI-26 (3); Inglenook VII-3; Lehigh Gap VII-3 (c); Rockville (20).
Rhode Island: Providence. Washington V-29, VII-20 (10).
West Virginia: West Sulphur Springs VII-19.
North Carolina: So. Pines VI-7 (21); Wilmington (8); Pendleton VI-7 (9); Tyron VII-23 (10).
Virginia: East Falls Church VIII-30 (10); Newport News (10); Cobham (17); Gt. Falls (10).
Georgia: Wayne Co. IX-1 (17); Jessup IX-1; Okefenokee Swamp (4).
Florida: Ft. Capron (18); Jacksonville (12); Gainsville VI (c); Tampa (10); Crescent City (10); Quincy VII-7 (10); La Grange IX (4); Lakeland V-6 (4); Pt. Orange (4); Enterprise (17); Paradise Key (10).
Indiana: Lake Co. VI, VII-29.
Minnesota: Baxterville (10).
Texas: Willis VI-3 (c).
Louisiana: Opelika VIII-2 (18); Covington VI-24 (10); Vowells Mills (4); Vernon Parish (4).
Alabama: Grand Bay V-25; Mobile VIII-4 (4).
Hosts: White pine *(Pinus strobus)*, pitch pine *(P. rigida)*, Loblolly pine *(P. taeda)*, long-leaf pine *(P. palustris)* and scrub pine *(P. virginiana)*.

210a. Variety DAVISII Nicolay-Weiss (9367a)

1918 Nicolay-Weiss p. 94.

Type locality: Big Pine Key, Florida.
Distribution: Florida: Cocoanut Grove IX-14 (19).

LYRATA Casey, See RUSTICORUM Kirby

211. MACULIPENNIS Gory (9368)

1833 *Ancy maculipennis* Dejean p. 78.
1841 Gory IV p. 118 pl. 21 fig. 117.
1844 Gory p. 146.
1846 *inconstans* Melsheimer p. 146.
1857 Leconte p. 8.
1857 *inconstans* Mels., Leconte p. 8.
1857 Fitch p. 705.
1857 *inconstans* Lacordaire p. 41.
1867 Chevrolat p. 578.
1890 Fleutiaux and Salle p. 405.
1903 Kerremans p. 141.
1909 Casey p. 90.
1909 *inconstans* Mels., Casey p. 91.
1909 *reducta* Casey p. 92.
1909 *deficiens* Casey p. 90.
1909 *fusiformis* Casey p. 91.
1909 *scripta* Casey p. 91.
1909 *leporina* Casey p. 92.
1914 *inconstans* Mels.=*maculipennis* Gory, Casey p. 155.
1914 *deficiens* Cas.=*maculipennis* Gory, Casey p. 155.
1914 *fusiformis* Cas.=*maculipennis* Gory, Casey p. 155.
1918 Nicolay-Weiss p. 93.
1919 Nicolay p. 18.
1922 Knull p. 81.
1925 Champlin & Knull p. 113.
1925 Fisher pp. 144, 145-146.

Type locality: North America.
Distribution: Maine to Florida, west to Michigan and Missouri.
Maine: Paris VII-18 (14).
Massachusetts: Lynn (3).
New York: Bellport, L. I. VII-23, VIII-30 (19); White Fact Mt. VI (4).
Pennsylvania: Milford, July; Bethlehem (Knull).
New Jersey: Jamesburg VII-2 (8); Lakehurst VII-11 (20).
Virginia: Cape Henry.
West Virginia: White Sulphur Springs VII-18.
Florida: January (4); Big Pine Key (21).
Louisiana: Vowell's Mill VI (4).
Indiana: Millers VII-28; Mineral Springs VII-4.
Michigan: Pentwater VII-24.
Missouri: (19).
Host: Bald cypress *(Taxodium distichum)*.

212. MACULATIVENTRIS Say (9370)

1824 Say p. 272-273.
1838 *Colobogaster* Chevrolat p. 73.
1838 *sexnotata* Laporte-Gory p. 129 pl. 32 fig. 178.
1848 White p. 24.
1850 Leconte p. 227.
1857 *sexnotata* Gory=*maculativentris* Say, Leconte p. 7.
1859 Leconte p. 208.
1869 Gemminger and Harold p. 1378.
1870 Pettit p. 102.
1870 Jones p. 9.
1873 Crotch p. 88.
1874 Austin p. 269.
1877 Provancher p. 352.
1878 Hubbard and Schwarz p. 636, 655.

1878 Glover pl. XI fig. 6.
1879 Gardner p. 212.
1881 Harrington p. 30.
1882 Leconte List II & V.
1883 Leconte p. 178.
1884 Harrington p. 218.
1885 Harrington p. 30.
1889 Blanchard p. 30.
1890 Packard p. 682.
1890 Harrington p. 159.
1893 Cockerell p. 329.
1894 Slosson p. 2.
1894 Fall p. 98.
1895 Townsend p. 43.
1896 Bodwitch p. 6.
1897 Harvey-Knight p. 78.
1898 Cockrell p. 151.
1899 Wickham pt. 7 p. 236.
1901 Fall p. 116.
1902 Young p. 153.
1903 Kerremans p. 142.
1903 *sexnotata* Kerremans p. 142.
1906 Felt p. 650, 674.
1907 Fall-Cockerell p. 178.
1909 Casey p. 100.
1909 Smith p. 291.
1911 Watson p. 73.
1912 Frost p. 305.
1913 Woodworth p. 195.
1917 Chagnon p. 218.
1918 Nicolay-Weiss p. 90.
1918 Burke p. 336.
1924 Mundinger p. 315.
1924 Felt p. 304.
1924 Hatch p. 571.
1925 Fisher p. 155, 157.

Type locality: Northwest Territory.

Distribution: Hudson Bay to Manitoba and Quebec, Maine, Oregon?, south in the Rocky Mountains to New Mexico?

Canada: Hudson Bay (Horn); Cape Breton, H. B. T., Halifax, N. S., McNabs Island, N. S., Montreal VI-14; Toronto, Port Credit, Ont. VIII-22; Gremsby, Ont. VII-7; Oweme, Manitoba, Winnipeg, Manitoba VIII-7.

Maine: Jackman, Harrison VII; Monmouth VI-24; Redding VII-14; Wales VII-4; Paris VII-12 (c).

New Hampshire: Mt. Wash. 6290 ft. VII-2; White Mts., Sanborn VII, VIII; Jefferson VIII-1 (4); Pike VII-8 (c).

Massachusetts: Monterey VII-10 (14); Lowell, Filchburg (10).

Vermont: Bengton Co. (4).

New York: Buffalo (4); Pequaming VIII-14; Keens Valley VII-VIII (1); Lake Placid VII-10; Saranac Lake, Wilmington VIII.

Indiana: Putnam Co.

Illinois (4).

Minnesota: Duluth (4).

Wisconsin: Keshena.

Michigan: Marquette VI-26, VI-27 (10); White Fish Pt. L. S. (10); Escanaba (10); Isl. Royal L. S. (10).

South Dakota: Elmore (10); Black Hills (Burke).

Colorado: Colorado Springs VI-10 (10).

Montana: Helena IV-8 (10).

Oregon: (Burke).

New Mexico: Sandia Mts. (Watson).
Arizona: (Burke).
Hosts: Balsam fir *(Abies balsamae)*, *Pinus sp.* (eastern), yellow pine *(P. ponderosa)*. Taken on Hemlock and Spruce.

212a. Var. SUBORNATA Lec. (9369)

1859 Leconte p. 208.
1899 Wickham pt. 7 p. 236.
1902 Van Dyke p. 172.
1903 Kerremans p. 142.
1907 Fall-Cockerell p. 179.
1909 Casey p. 98.
1909 *rubronotans* Casey p. 97.
1909 *punctiventris* Casey p. 99.
1909 *violescens* Casey p. 99.
1909 *adonea* Casey p. 97.
1909 *histrio* Casey p. 98.
1913 Woodworth p. 195.
1914 *punctiventris* Cas.=*subornata* Lec., Casey p. 155.
1915 Gibson p. 137.
1918 Nicolay & Weiss p. 92.
1918 Garnett p. 90.
1918 Burke p. 336.
1924 Chamberlin p. 187.

Type localiay: California.
Distribution: Washington to California and New Mexico, east to Kansas. (Reported by Germain from Ottawa, Canada. This is doubtless an error; the eastern species is *maculativentris* Say.)
Washington: Mt. Rainier VII-14 (9); Olympia (2).
Oregon: Wasco (17); Corvallis VI-12 (c).
California: Palo Alto (10); Pyramid R. S. (10); Hilt (10); Placerville (10); Yreka (10); Weed VI, VII, VIII (c).
Colorado: Colorado Springs (13); Cheyenne Can. (2).
New Mexico: Los Vegas VI-8, VII-8 (10).
Arizona: Grand Canyon (10).
Michigan: Isl. Royal L. I. (2).
Utah: (Burke).
Kansas: (10).
Host: *Pinus ponderosa*, yellow pine, Douglas fir *(Pseudotsuga taxifolia)* (Garnette).
Season: June-October.

212b. Var. RUSTICORUM Kirby (9370a)

1837 *Anoplis rusticorum* Kirby p. 151.
1837 *A. paganorum* Kirby p. 152.
1841 Laporte-Gory IV p. 117 pl. 20 fig. 115.
1843 Mannerheim p. 237 No. 131.
1848 White p. 23.
1848 *paganorum* White p. 23.
1850 Leconte p. 227.
1857 Leconte p. 8.
1859 Leconte p. 208.
1859 *paganorum* Kby., Leconte p. 208.
1866 Walker p. 322.
1871 *Anoplis* Bethune p. 230.
1871 *Anopolis paganorum* Kby., Bethune p. 230.
1871 *lecontei* Saunders p. 40 No. 17

1877 Packard p. 589, 810.
1877 Packard p. 22-27.
1878 Glover pl. 42 fig. 10.
1882 Leconte List I, III and VI.
1890 Harrington p. 159.
1890 Packard p. 683.
1893 Hamilton p. 274.
1902 Skinner p. 40.
1902 Van Dyke p. 172.
1903 Kerremans p. 142.
1903 *paganarum* Kerremans p. 142
1903 Knaus p. 175.
1907 Fall-Cockerell p. 179.
1909 Casey p. 99.
1909 *sublivida* Casey p. 102.
1909 *morosa* Casey p. 101.
1909 *paganorum* Kby., Casey p. 100.
1909 *nigricans* Casey p. 102.
1909 *adducta* Casey p. 103.
1909 *acomana* Casey p. 101.
1909 *caliginosa* Casey p. 102.
1909 *fusca* Casey p. 101.
1909 *lyrata* Casey p. 103.
1913 Woodworth p. 195.
1914 Bush p. 59.
1917 Gibson p. 149.
1917 Chamberlin p. 132.
1918 Nicolay-Weiss p. 91.
1918 Garnett p. 91.
1918 Burke p. 336.
1924 Chamberlin p. 187.
1924 Wallace p. 15.

Type locality: "Lat 54°" (Rocky Mountains).
Distribution: British Columbia to California and New Mexico, east through the Rocky Mountain States.
Saskatchewan: Cumberland House (Leconte).
British Columbia: Golden VIII (4); Peachland VIII-3; Glacier (17); Field VIII-1 (17); Stampede (17); Beavermouth VII-14 (17).
Washington: King Co. 2800 ft. VIII-5 (17); Tacoma IX-14; Seattle, Port Townsend (4).
Oregon: Rainier VII (c); Astoria (c); Sedalia (c); Dilly (4); Blue Mts. VII, VII (c); Divide, Douglas Co. (17).
California: Weed VI, VII, VIII (c); Pyramid R. S. (10); Yreka (10); Vade (10); Onion Valley (10); Tahoe (10); Fresno Co. (4).
Montana: Helena VII-10.
Wyoming: Nat. Park VII-30 (10).
New Mexico: Los Vegas VIII-7 (10); Ft. McLeod (10); Cloudcraft VII-17 (10); Albuquerque (4); High Rolls V-31 (10); Ft. Wingate VIII (17); Beulah (17).
Arizona: Bright Angle VIII (10); Los Vegas Hot Springs (10).
Utah: Scofield VIII-24 (10).
Kansas:
Idaho: Moscow (10).
Nevada: (4).
Colorado: Arbolos VII-6 (10); Monetan VIII-16 (4); Boulder VII-13; Creede 8844 ft. VIII.
Hosts: *Pseudotsuga taxifolia, Abies grandis, Abies lasiocarpa, Abies concolor, Pinus ponderosa.*
Season: April-October.

MEDIOCRIS Casey, See FASCIATA Fabricii

MOROSA Casey, See RUSTICORUM Kirby

NIGRICANS Casey, See RUSTICORUM Kirby

NIGRICORNIS Strum, See APRICANS Herbst

NUPTA Casey, See AURULENTA Linne

213. NUTTALLI Kirby (9372)

1837 *Anoplis nutalli* Kirby p. 152.
1848 White p. 24.
1850 Leconte p. 227.
1857 Leconte p. 8.
1859 Leconte p. 207.
1871 Bethune p. 230.
1877 Provancher p. 352.
1878 Hubbard-Schwarz p. 636.
1879 *Anchylochira* Harrington p. 52.
1882 Leconte Lists 6, 8, 9.
1889 Blanchard p. 30.
1890 Harrington p. 159.
1893 Cockerell p. 329.
1895 Evans p. 146.
1895 Townsend p. 43.
1898 Cockerell p. 151.
1902 Van Dyke p. 172.
1903 Kerremans p. 142.
1907 Fall-Cockerell p. 179.
1909 Casey p. 92.
1909 Smith p. 291.
1917 Chagnon p. 218.
1918 Nicolay-Weiss p. 96.
1918 Burke p. 336.
1919 Swaine p. 13e.
1924 Mundinger p. 315.

Type locality:: Latitude 65° Rocky Mountains.

Distribution: Alaska, British Columbia and Alberta, south through the Rocky Mountain and Pacific Coast States to Arizona and New Mexico.

Alaska: Port Yukon, Salmon River, Alaska (c).

Alberta: Edmonton VII-3 (c); Banff VII-1 (17); Dawson, Y. Ter., Stewart, Y. Ter. (Swaine).

British Columbia: Telegraph Creek (4).

Oregon: Wallowa Co. (c); Ft. Klamath VIII-25 (10).

Wyoming: (10).

Montana: (c).

Colorado: Waldo Canyon VIII-2; Eldora (17); Bailey VIII (13); Leadville, 10,500 ft. VII-6 (10).

Idaho: Evergreen 3600 ft. VIII (17); Moscow (10).

Arizona: Williams VII-29 (10); Flagstaff VII-6 (10); Grand Canyon (10).

Host: Probably Yellow pine *(Pinus ponderosa)*.

213a. Var. ALTERNANS Lec. (9373a)

1859 Leconte p. 207.
1866 *Ancylocleira* Leconte p. 348.
1873 *alternans* Lec.=*nuttalli* Kby., Crotch p. 88.
1903 *alternans* Lec.=*nuttalli* Kby., Kerremans p. 142.
1909 Casey p. 93.
1909 *boulderensis* Casey p. 96.
1909 *torva* Casey p. 95.
1909 *conicicauda* Casey p. 93.
1909 *diruptans* Casey p. 94.
1909 *contorta* Casey p. 95.
1909 *gravidula* Casey p. 95.
1918 var. *alternans* Nicolay-Weiss p. 97.
1921 Nicolay p. 174.

Type locality: Northwest Territory.
Distribution: Washington, Oregon, Colorado, California, Arizona and New Mexico.

213b. Var CONSULARIS Gory (9372a)

1837 Dejean p. 88.
1841 Gory p. 120 pl 21 fig. 118.
1850 Leconte p. 227.
1857 Leconte p. 8.
1859 Leconte p. 209.
1873 Crotch p. 88.
1878 Hubbard-Schwarz p. 636, 655.
1878 Glover plate 42 fig. 12.
1879 Harrington p. 35.
1881 Harrington p. 33.
1882 Leconte List No. 1.
1884 Harrington p. 101.
1885 Harrington p. 30.
1889 Blanchard p. 30.
1890 Packard p. 809.
1890 Harrington p. 159.
1895 Evans p. 146.
1898 Cockerell p. 151.
1899 Wickham pt. 7 p. 236.
1902 Van Dyke p. 172.
1903 Kerremans p. 142.
1906 Felt p. 751.
1907 Fall-Cockerell p. 189.
1909 Casey p. 96.
1909 *flavopicta* Casey p. 96.
1909 Smith p. 291.
1911 Gibson p. 114.
1912 Frost p. 305.
1914 *flavopicta* Cas. = *consularis* Gory, Casey p. 155.
1915 Frost p. 142.
1917 Chagnon p. 218.
1918 var. *consularis* Nicolay-Weiss p. 97.
1918 Burke p. 336.
1920 Knull p. 5.
1922 Knull p. 82.

Type locality:
Distribution: Ontario, Canada to New Jersey, west through Lake Superior Region, Colorado, Oregon, north to Yukon Territory.
Canada: Montreal Isl., St. Lawrence River VIII; Gory, Ont.; Sudbury, Ont.; Priest River, B. C. (10).
Maine: Paris VII-18 (14); Monmouth VI-17 (14).
Massachusetts: Lowell VII-VIII (19).
D. of C.: Washington (17).
New York: Lehaway VII-5; Keene Valley (1).
New Jersey: Lakehurst VII-22 (8).

Pennsylvania: Harrisburg VII-31; Hazleton (3); Charter Oak (20); Hunters Run, July; Montebello, Aug. (Knull).
Virginia: Gt. Falls VII-4.
West Virginia: White Sulphus Springs VII, VIII.
Michigan: Waldo (17); Houghton Lake (17); Escanaba (10); Marquette VII-27 (10).
Minnesota: Duluth (17).
Ohio: Cincinnati (11).
Iowa: Ames (c).
South Dakota: Black Hills (c).
New Mexico: Gallinas Can. (24).
Idaho: Centerville (10.
Montana: Bitter Root Mts. (10).
Colorado: Cheyenne Canyon (10); Bailey VII (13).
Hosts: Pitch pine *(Pinus rigida)*, yellow pine *(P. ponderosa)*, Douglas Fir *(Pseudotsugae taxifolia)*, Balsam fir *(Abies balsamea)*, and scrub pine *(P. virginiana)*.

OBLIQUA Casey, See FASCIATA Fabricii

OBSCURA Casey, See STRIATA Fabricii

OREGONA Casey, See FASCIATA Fabricii

ORNATA Walker, See FASCIATA Fabricii

PAGANORUM Kirby, See RUSTICORUM Kirby

PATRUELIS Casey, See FASCIATA Fabricii

PROSPERA Casey, See AURULENTA Linne

PUGETANA Casey, See LAEVIVENTRIS Leconte

PUNCTIVENTRIS Casey, See SUBORNATA Leconte

RADIANS Leconte, See AURULENTA Linne

RUDUCTA Casey, See MACULIPENNIS Gory

RUBRONOTANS Casey, See MACULIVENTRIS Var. SUBORNATA Leconte

214. RUFIPES Oliv. (9374)

1790 Oliver p. 16 pl. 7 fig. 73.
1792 Fabricii p. 188.
1801 Herbst p. 79 pl. 140 fig 3 p. 210.
1801 Fabricii p. 188.
1805 Illiger p. 86 No. 13.
1817 Schonherr p. 216.
1824 Say plate 26.
1825 Say p. 249.
1837 Dejean p. 88.
1841 Laporte-Gory II p.139 pl. 34. fig. 191.
1843 *Ancylocheira* Strum p. 59.
1848 White p. 24.
1857 Leconte p. 8.
1859 Leconte p. 210.
1878 Schwarz p. 451.
1886 Horn p. 137.
1893 Hopkins p. 181.
1895 Hamilton p. 364.
1902 Ulke p. 21, 47.
1903 Kerremans p. 142.
1906 Felt p. 701.
1909 Blatchley p. 784.
1909 Smith p. 291.
1909 Casey p. 105.
1909 *virens* Casey p. 105.
1909 *elongata* Casey p. 106.
1913 Manee p. 168.
1914 *virens* Cas.=*rufipes* (female) Oliv. (Fab.), Casey p. 155.
1918 Nicolay-Weiss p. 99.
1918 Burke p. 335.
1920 Knull p. 4.
1922 Knull p. 82.
1924 Burke p. 70.

Type locality: "Bor Amer."

Distribution: New York to Florida, west to Kansas and Texas.

New York: Babylon (9).

New Jersey: Cape May, Anglesea VII; 5-mile Beach VII (8).

Maryland: Senica (10); Prince George Co. (10); Gerwyn VII-5 (10); Smith's Island (10).

Pennsylvania: Hummelstown VII; Harrisburg VI-13; Ardmore VIII-14 (c); Pittsburg (3); Lancaster VII-4 (7); Mt. Hope VIII-4 (7); Philadelphia VIII (8).

Virginia: Cobham VI-9 (16); Newport News (10); Falls Church (10).

North Carolina: So. Pines.

W. Virginia: Kanawha (10).

Mississippi: Jackson (10).

Georgia: Okefenokee Swamp VI (4); Thunderbal (10).

Florida: Enterprise V-2 (10); Crescent City (11); Steinhatchet (4).

Louisiana: New Orleans (10); Covington VI (4); Vowell's Mills VIII (4).

Kansas: Douglas Co. 900 ft. (20).

Ohio: Cincinnati VI-20, VII-29 (11).

Texas: Carmel Co. (4); Plane VII (10); New Brunsfels V-5 (16); Brownsville VIII-17 (9).

Hosts: Hickory *(Hickoria sp.)*, beech *(Fagus atropunisea)*, and *(F. americana)*, horse chestnut *(Castenea dentata)*, white oak *(Quercus*

alba), live oak *(Q. virginiana)*, tulip tree *(Liriodendron tulepifera)*, and maple *(Acer sp.)*, elm *(Ulmus americana)*, sour gum *(Nyssa sylvatica)*.

RUSTICORUM Kirby, a Variety of MACULATIVENTRIS Say

215. SALISBURYENSIS Herbst (9366)

1801 Herbst p. 174 No. 98 pl. 141 fig. 8.
1801 Weber p. 73.
1817 Schonherr p. 223.
1836 *ultramarina* Say p. 160.
1857 *ultramarina* Lacordaine p. 41.
1857 *ultramarina* Fitch p. 704.
1859 *ultramarina* Leconte p. 210.
1883 Leconte p. 593.
1889 *ultramarina* Tolman p. 343.
1889 *ultramarina* Blanchard p. 30.
1890 *ultramarina* Packard p. 681.
1895 *ultramarina* Hamilton p. 364.
1903 *ultramarina* Say=*salisburensis* Herb., Kerremans p. 141
1906 *ultramarina* Felt. p. 751.
1908 *ultramarina* Wenzel p. 343.
1909 *ultramarina* Wenzel p. 45.
1909 *ultramarina* Casey p. 291.
1911 *ultramarina* Wenzel p. 384.
1918 *ultramarina* Say=*salisburensis* Hrb., Nicolay-Weiss p. 89.
1922 Knull p. 81.
1925 Schott p. 225.

Type locality: Salisburg, North Carolina.
Distribution: Massachusetts and Pennsylvania, south to Georgia.
New York: On Sable Fork VI (4); White Face Mt. (4).
New Jersey:: Sumner V-13; Lakehurst IV-30; Sea Isle V-24; Westville IV-19; Atlantic City VI-28; Gloucester IV-20, V-5 (8); Redbank V-10 (8); Malaga III-23, V-24 (8); DaCosta VIII-4 (8).
Pennsylvania: Philadelphia (2); Carlisle VIII-9; Hazleton.
Virginia: Pennington Gap VI-26 (10).
North Carolina: Southern Pines III-26 (4).
Wisconsin: (16).
Michigan: White Fist Pt. L. S. (10).
Hosts: *Pinus rigida;;* probably other southern pines.

SATURATA Casey, See FASCIATA Fabricii

SCRIPTA Casey, See MACULIPENNIS Gory

SEDITIOSA Casey, See FASCIATA Fabricii

SEXMACULATA Herbst, See FASCIATA Linne

SEXNOTOTA Gory, See MACULATIVENTRIS Say

SEXPLIGATA Leconte, See FASCIATA Linne

216. STRIATA Fab. (9363)

1775 Fabricii p. 217.
1787 Fabricii p. 177.
1781 Fabricii p. 274.
1788 Linne p. 1927.
1790 Oliver p. 15 pl. 7 fig. 77.
1792 Fabricii p. 191.
1801 Fabricii p. 192 No. 34.
1801 Herbst p. 187 pl. 140 fig. 8.
1805 Illiger p. 87 No. 34.
1817 Schonherr p. 220.
1836 Say p. 160.
1837 Dejean p. 88.
1841 Laporte-Gory II p. 147 pl. 37 fig. 202.
1843 *Ancylocheira* Strum p. 59.
1848 White p. 24.
1850 Leconte p. 227.
1857 Leconte p. 8.
1857 Leconte p. 43.
1857 Fitch p. 704.
1859 Leconte p. 209.
1869 Glover p. 91 fig. 95.
1870 Pettit p. 102.
1873 Crotch p. 88.
1877 Provancher p. 353.
1878 Glover pl. XI fig. 12.
1878 Hubbard-Schwarz p. 636, 656.
1879 Harrington p. 119.
1880 Zesch-Reinecke p. VII.
1881 Harrington p. 30.
1882 Harrington p. 7.
1883 Leconte p. 593.
1884 Saunders p. 54.
1886 Horn p. 137.
1889 Blanchard p. 30.
1889 Chittenden p. 217.
1890 Harris p. 369.
1890 Packard p. 680.
1892 Slosson p. 6.
1895 Evans p. 146.
1895 Hamilton p. 364.
1901 Scott p. 31.
1902 Ulke p. 21.
1903 Kerremans p. 141.
1906 Felt p. 648, 655.
1909 Blatchley p. 784.
1909 Smith p. 291.
1909 Casey p. 125.
1909 *obscura* Casey p. 125.
1911 Morris p. 45.
1913 Manee p. 168.
1915 Kwiat p. 237.
1917 Nicolay p. 136.
1917 Chagnon p. 218.
1918 Nicolay-Weiss p. 85.
1918 Burke p. 337.
1920 Knull p. 5.
1920 Frost p. 232.
1922 Knull p. 81.
1924 Mundinger p. 315.
1924 Felt p. 303.
1925 Fisher p. 149-150.

Type locality: Pennsylvania.

Distribution: Quebec to Florida, west to Illinois, Missouri and Louisiana. Haiti (Br. Mus.).

Canada: Levis Co., Terrebonne Co., Montreal Island, Vandreuil Co. VII; Sudbury, Ontario (4).

New Hampshire: Sanborn.

Massachusetts: Hubbardstown VIII-4 (14).

New York: Keen Valley VI, IX (1); Greenwood Lake (16).

New Jersey: Lakehurst, Newark, Westville, DeCosta V-30; Alloway VIII; Minnewaska VII-27 (19); Valhalla IV-11 (c); Ft. Lee (4).

Pennsylvania: Hummelstown V-5 (c); Philadelphia IV-23 (9); Allegheny (10).

Virginia: Cobham (16); Va. Beach (10).
North Carolina: So. Pines V-IX (Manee).
Florida: La Grange, Jacksonville, Archer V (10).
Louisiana: Vowell's Mill (4).
Ohio: Cincinnati (11).
Indiana: Millers VII-2, VIII-15 (c).
Illinois:: Cook Co., Mineral Springs VII-4.
Michigan: Pentwater VIII-20, Pequaming VIII-10 (8); Pt. Heron VI (c); Marquette VII-8, VIII-7 (10); White Fish Pt. L. S. (10); Detroit (10).
Missouri: St. Louis X-27.
Hosts: White pine *(Pinus strobus)*, Virginia pine *(P. virginiana)*, pitch pine *(P. rigida)*, Hemlock *(Tsuga canadensis)* and Larch (Wolcott).

216a. Var. IMPEDITA Say (9363a)

1836 Say p. 160.
1841 Laporte et Gory II p. 148 pl. 26 fig. 203.
1848 White p. 24.
1857 Fitch p. 704.
1857 Leconte p. 8.
1903 Kerremans p. 141.
1909 Casey p. 124.
1909 *canadensis* Casey p. 124.
1912 Frost p. 305.
1915 Frost p. 142.
1917 Nicolay p. 136.
1917 var. *impedita* Nicolay p. 92
1918 var. *impedita* Nicolay-Weiss p. 87.
1919 Nicolay p. 18.
1922 Knull p. 81.

Type locality: Pennsylvania.
Distribution: Ontario to New Jersey to Michigan.
Ontario: Sudbury, Hymens IX-1.
Maine: Paris (14); Waterford VI-8 (19); Monmouth (14).
New York: Bayshore, L. I. (19); Catskill Mts. (19).
New Jersey: Ft. Lee (4).
Pennsylvania: Hummelstown IV-1 (3); Rockville.
Michigan: Marquette VI-25 (10).
Hosts: White pine *(Pinus strobus)*, pitch pine *(P. rigida)*.

SUBLIVIDA Casey, See MACULATIVENTRIS Variety RUSTICORUM Kirby

SUBORNATA Leconte, a Variety of MACULATIVENTRIS Say

217. SULCICOLLIS Lec. (9360)

1859 Leconte p. 208.
1878 Hubbard-Schwarz p. 636.
1889 Blanchard p. 30.
1895 Evans p. 146.
1903 Kerremans p. 143.
1906 Felt p. 751.
1909 Casey p. 119.
1909 *lateralis* Casey p. 119.
1912 Frost p. 305.
1914 Blatchley p. 89.
1915 Gibson p. 137.
1917 Notman p. 145.
1918 Nicolay-Weiss p. 85.
1920 Frost p. 23.
1922 Knull p. 81.

Type locality: Lake Superior.
Distribution: New Foundland, Ontario, south to New York and Pennsylvania, west to Michigan. Florida? New Mexico?
Ontario: Godbout, Calandar VII-20 (8).
Maine: Monmouth VI-24 (14); Paris (14).
New Hampshire: Hampton (16).
Massachusetts: Concord (8).
New York: Keene Valley, Essex Co. VII (1).
Pennsylvania: (11).
Michigan: Marquette 1000 ft. VI-27 (9); Marquette on the beach (10); White Fish Point (10); Huron Mt. Club VI (c).
Florida: (Blatchley).*
New Mexico: (Kerremans).*
Hosts: Unknown.

TACOMAE Casey, See AURULENTA Linne

TESSELLATA Casey, See CONFLUENS Say

TORVA Casey, See ALTERNANS Leconte

ULTRAMARINA Say, See SALISBURYENSIS Herbst

VENUSTA Casey, See AURULENTA Linne

VILLOSA Leconte, See AURULENTA Linne

VIOLESCENS Casey, See Var. SUBORNATA Leconte

VIRENS Casey, See RUFIPES Oliv.

VIRIDIMICANS Casey, See FASCIATA Fabricii

*Probably an error in determination or locality.

218. VIRIDISUTURALIS Nicolay-Weiss (9375)

1918 Nicolay-Weiss p. 100.
1918 *gibbsii* Garnett p. 91.
1920 Garnett p. 17.
1920 Burke p. 75.
1924 Chamberlin p. 188.

Type locality: Tulare County, California.
Distribution: Washington, Oregon, California.
Washington: (17).
Oregon: Dilly (4); Corvallis XII (0); Salem (9); Tolo VIII-15 (25).
California: Tulare Co. Paratype (16); Allotype (c); Palm Springs IX-24, V-20 (10), VI-20 (c); White Water; Three Rivers (10); San Diego (10); Oro Grande, San Bernardino Co. (Garnett); Red Bluff (23); Sacramento (C).
Hosts: Black cottonwood *(Populus trichocarpa)*, Oregon alder *(Alnus oregona)*, cottonwood *(P. deltoides)* (23); Fremont poplar *(P. Fremontii)*, and *(Alnus rhombifolia)* (23).

Genus *CHALCOPHORA* Sol.

1833 Solier p. 278 pl. 10 fig. 9.

Type of the Genus BUPRESTIS MARIANA Linn.

219. ANGULICOLLIS Lec. (9318)

1857 *Buprestis angulicollis* Leconte p. 44.
1857 *B. oregonensis* Fitch p. 702.
1859 Leconte p. 192.
1866 Walker p. 310.
1869 Geminger-Harold p. 1292.
1873 Crotch p. 84.
1878 *angulicollis* and *oregonensis* Glover pl. 41 fig. 31.
1888 Holland p. 91.
1889 *oregonensis* Hamilton p. 138.
1890 Packard p. 678.
1892 *angulicollis* Lec.=*virginensis* Drury, Kerremans p. 35.
1893 Hopkins p. 181.
1898 Cockerell p. 151.
1901 Fall p. 115.
1906 Evans p. 98.
1907 Fall-Cockerell p. 179.
1908 Wright-Coolidge p. 67.
1909 Casey p. 80.
1909 *montana* Casey p. 80.
1909 *oregonensis* Casey p. 80.
1909 Casey p. 80.
1909 Kerremans p. 31, 78.
1909 *oregonensis* Kerremans p. 33, 78.
1913 *angusticollis* Woodworth p. 195.
1913 var. *montana* Cas. Butterick p. 456.
1914 *montana* Cas. = *angulicollis* Lec., Casey p. 155.
1917 Burke pl. 1 fig. 1.
1917 Chamberlin p. 129.
1920 Rohwer p. 443, 469.
1924 Chamberlin p. 185.

Type locality: Sacramento, California.

Distribution:* British Columbia to Arizona and New Mexico ,east to the Black Hills of Dakota.
British Columbia: Common.
Washington:: Pullman VII-6 (10); Deep Creek VII-12 (0).
Oregon: Talent VIII (10); Dilly (4); Josephine Co. (C); Corvallis III-24, VI-11 (C); Detroit VIII (C); Sumpter VI, VII (C); Sparta VII (C); Baker City VIII (C); Astoria V (C); Klamath Falls VI (C); Rickreall VII-23 (0); Baker (0).
California:: Onion Valley (10); Summerdale (10); Placerville VII-1 (C); Pyramid R. S. (10); Yreka (4); Castle Crag (13); Deer Park (13); Mt. Wilson (13); Tallac VII (13); Siskiyou (4); Weed VII, VII (C); Yosemite (25).
Idaho: Centerville (10); Atlanta 7800 ft. VII (10); Moscow VIII-8 (9);; Cascade VI-22 (c); McCall VI-21 (c).
New Mexico: Ft. Wingate (10); Gallinas Can. (24).
Colorado: Manitou VIII-18 (9).
Arizona: Bright Angle, G. C. (10); Flagstaff VII-7 (10).
Nebraska: Hat Creek VIII (10).
South Dakota: Black Hills (10); Lead V-29 (10); Elmore IX-10.
Texas: Willis V (0).
Host: Yellow pine *(Pinus ponderosa)*, Douglas fir *(Pseudotsuga taxifolia)*, Grand fir *(Abies grandis)* and White fir *(A. concolor)*.

BOERALIS Lap. et Gory, See **LIBERTA** Germar

BREVICOLLIS Casey, See **VIRGINENSIS** Drury

CUPRECOLA Casey, See **FORTIS** Lec.

CUPREOMACULATA Goeze, See **VIRGINENSIS** Drury

220. FORTIS Lec. (9320)

1859 Leconte p. 191.
1880 Zesch-Reinecke p. VII.
1881 Harirngton p. 28.
1883 Harrington p. 79.
1884 Harrington p. 35.
1889 Blanchard p. 29.
1889 Chittenden p. 217.
1890 Packard p. 679.
1892 Kerremans p. 35.
1895 Hamilton p. 364.
1902 MacGillivery-Houghton p. 251.
1903 Harrington p. 114.
1906 Fyles p. 58.
1906 Felt p. 751.
1909 Casey p. 82.
1909 *laurentica* Casey p. 82.
1909 *laurentica* Cas., Kerremans p. 40.
1909 Kerremans p. 38.
1910 Muttowski p. 136.
1914 *laurentica* Cas.=*fortis* Lec., Casey p. 155.
1914 *cupreola* Casey p. 360.
1915 Frost p. 142.

*Note—Mr. C. A. Frost informs me that there is a specimen of *C. angulicollis* in his collection from Ottawa, Ontario VII-22.

1917 Nicolay p. 92.
1919 Nicolay p. 277.
1920 Britton p. 243.
1922 Knull p. 79.

Type locality: Pennsylvania.

Distribution: Ottawa, Canada, south through the New England States to New York, west to Pennsylvania. (This species has been reported from Kansas, probably an error in determination.)

Ottawa (4); Lennox, Mass. (9); Beaver Falls, N. Y. IX-5 (10); West Point, N. Y. (16); New Brunswick, N. J. VI-16 (19); Charter Oak, Pa. VII-14 (10); Marquette, Mich. (10); Ames, Ia. (c).

Host: Reared from white pine *(P. strobus)*.

221. GEORGIANA Lec. (9319)

1841 *Buprestis liberta* (name preoccupied) Laporte et Gory 11 pl. 2 fig. 6.
1857 *Buprestis georgiana* Leconte p. 7.
1857 *B. liberta* L. et G.=*georgiana* Leconte p. 7.
1878 Schwarz p. 451.
1892 *liberta* L.-G.=*georgiana* Lec., Kerremans p. 36.
1897 Castle p. 8.
1901 Scott p. 31.
1902 Kerremans p. 78.
1902 *liberta* L.-G., Kerermans p. 78
1909 Casey p. 81.
1909 *irridescens* Casey p. 82.
1909 *parviceps* Casey p. 82.
1909 *prominens* Casey p. 82.
1909 Kerremans p. 36.
1909 *prominens* Cas., Kerremans p. 34.
1909 *irridescens* Cas., Kerremans p. 37.
1909 *parviceps* Cas., Kerremans p. 43.
1913 Manee p. 167.
1914 *irridescens* Cas. = *georgiana* Lec., Casey p. 155.
1914 *prominens* Casey p. 155.
1918 Dozier p. 331.

Type locality: Georgia.

Distribution: South Atlantic States, Carolinas to Florida, west to Louisiana.

Virginia: Virginia Beach (10).

North Carolina: Wilmington (10); Southern Pines X-8 (c).

Florida: Buena Vista (10); Lemon City (10); Crescent City (10); Little River (10); Big Key IX-28 (4); Gainsville (Dozier).

Host: Larvae in the wood of the southern pines. Long leaf pine *(Pinus palustris)*, Cuban pine *(P. heterophylla)*, Short leaf pine *(P. echinata)*, and loblolly pine *(P. taeda)*.

IRRIDESCENS Casey, See GEORGIANA Leconte

LACUSTRIS Leconte, a Variety of VIRGINENSIS Drury

LAURENTICA Casey, See FORTIS Leconte

LIBERTA Laporte et Gory

The *liberta* of Gory is not the *liberta* of Germar but is the species later described by Leconte as *georgiana*.

222. LIBERTA Germ. (9321)

1824 *Buprestis liberta* Germar p. 38.
1836 *Buprestis* Say p. 157.
1838 *B. borealis* Laporte-Gory II, p. 13 pl. II fig. 9.
1843 Strum p. 59.
1852 Fitch p. 192.
1857 Fitch p. 700.
1857 *novaeboracensis* Fitch p. 701-702.
1857 *obscura* Fitch p. 701.
1857 var. *obscura* Fitch p. 701.
1857 *B. borealis* L. et G.=*liberta* Germ., Leconte p. 7.
1868 Glover p. 91.
1878 Glover plate XI fig. 16.
1878 Provancher p. 7.
1879 Harrington p. 119.
1880 Zesch-Reinecke p. VII.
1880 Saunders p. 5.
1881 Harrington p. 28.
1882 Harrington p. 25.
1883 Harrington p. 79.
1883 Harrington p. 35.
1883 Leconte p. 590.
1884 Saunders p. 54.
1884 Harrington p. 218.
1885 Harrington p. 23.
1889 Chittenden p. 217.
1889 Blanchard p. 29.
1889 Townsend p. 233.
1890 Packard p. 678.
1891 Treat p. 63.
1892 Kerremans p. 36.
1895 Evans p. 146.
1899 Hopkins p. 436.
1899 Hamilton p. 138.
1899 *obscura* Fitch, Hamilton p. 138.
1899 *novaeboracencia* Fitch, Hamilton p. 138.
1901 Felt p. 874.
1902 Felt p. 164.
1903 Harrington p. 114.
1903 *novaeboracencia* Kerremans p. 78.
1903 Kerremans p. 78.
1903 *obscurata* Kerremans p. 78.
1906 Felt p. 648, 654.
1909 Blatchley p. 780.
1909 Kerremans p. 41.
1909 Smith p. 291.
1909 Casey p. 83.
1912 Frost p. 305.
1915 Frost p. 142.
1917 Nicolay p. 92.
1920 Britton p. 243.
1922 Knull p. 79.
1924 Felt p. 303.

Type locality: "Bor. Amer."
Distribution: Ottawa to Florida, west to Indiana and Texas.
Canada: Gerdran Bay (10).
Maine: Paris VI-14 (14); Rockland VII (4); Lewiston (10).
New Hampshire: Chocorua (c).
New York: Long Island (19); Ithaca (10).
Indiana: Millers VII-8 (c).
Connecticut: (Britton).

Michigan: White Fish Point, L. S. VII (10).
Pennsylvania : Common in pine (Knull).
Texas: Galveston VI-II (c).
Host: Pitch pine *(Pinus resinosa)*, White pine *(P. strobus)*.

MARIANA Linn

C. mariana Linn. is an European species not found in Amercia, although there are a few references to it in our literature.

MELANOTUM Muttowski, See VERGINENSIS Drury

MONTANA Casey, See ANGULICOLLIS Leconte

NOVAEBORACENCIA Fitch, See LIBERTA Germar

OBLITERATA Casey, See VIRGINENSIS Drury

OBSCURA Fitch, See LIBERTA Germar

OREGONENSIS Fitch, See ANGULICOLLIS Leconte

PARVICEPS Casey, See GEORGIANA Leconte

PROMINENS Casey, See GEORGIANA Leconte

223. VIRGINIENSIS Drury (9316)

1772 *Buprestis virginensis* Drury p. 66 pl. 30 fig. 3.
1777 *B. cupreomaculata* Goeze p. 596.
1788 *B. virginiaea* Linne p. 1940 No. 110 (Gmelin).
1801 *Buprestis* Herbst p. 114 No. 63 pl. 148 fig. 1.
1817 *Buprestis* Schonherr p. 229, 230.
1821 *Buprestis* Dejean p. 24.
1836 *B. virginica* Say p. 157.
1837 *Buprestis* Dejean p. 87.
1841 Laporte-Gory II p. 11 pl 2 fig. 7.
1843 Strum p. 59.
1848 White p. 15.
1857 Leconte p. 7.
1857 *virginica* Fitch p. 698.
1857 Lecordaire p. 22.
1859 Leconte p. 190.
1862 Harris p. 48.
1867 Chevrolat p. 573.
1868 Horn p. 124.
1869 Glover p. 91, 868 fig. 89.
1869 Harris p. 357.
1869 *virginica* Harris p. 221.
1870 *B. virginica* Pettit p. 67.
1870 *mariana* Linne, Jones p. 9.
1872 Clementi p. 37.
1873 Crotch p. 84.
1874 LeBaron p. 94.
1876 Thomas p. 112.
1877 Provancher p. 364 fig. 33.
1878 Hubbard-Schwarz p. 636, 655.
1878 Schwarz p. 451.
1878 Glover plate XI fig. 19.
1879 Harrington p. 119.

1880 Zesch-Reinecke p. VII.
1881 Harrington p. 28.
1882 Waterhouse Vol. III p. 2.
1882 Harrington p. 825.
1882 Leconte List No. 1.
1882 Bowditch p. 27.
1883 Packard p. 25.
1883 Harrington p. 79.
1883 Leconte p. 590.
1884 Saunders p. 54.
1884 Harrington p. 35.
1889 Chittenden p. 217.
1889 Blanchard p. 29.
1890 Harrington p. 159.
1890 Packard p. 675.
1891 Treat p. 62.
1891 *virginica* Hamilton p. 138.
1892 Kerremans p. 37.
1893 Gundlach p. 155.
1893 Cockerell p. 328.
1895 Hamilton p. 364.
1895 Evans p. 146.
1899 Hopkins p. 436.
1901 Felt p. 874.
1901 Scott p. 31.
1902 Felt p. 164.
1902 Felt p. 63.
1902 Ulke p. 21, 47.
1903 Harrington p. 114.
1904 Hopkins p. 39.
1906 Fyles p. 58.
1906 Felt p. 648, 653, 655.
1908 Heyne-Taschenberg p. 133.
1908 McAtee p. 44.
1909 Burke p. 412.
1909 Blatchley p. 780.
1909 Casey p. 77.
1909 *brevicollis* Casey p. 79.
1909 *obliterata* Casey p. 79.
1909 Easton p. 50.
1909 Kerremans Vol. IV p. 26.
1909 Smith p. 291.
1910 *brevicollis* Muttkowski p. 136.
1910 *melanotum* Muttkowski p. 135
1912 Davis-Leng p. 120.
1912 *brevicollis* Cas., Frost p. 305.
1912 Beal p. 34.
1913 Manee p. 167.
1913 Butterick p. 458.
1914 Comstock p. 549.
1914 *obliterata* Cas. = *virginensis* Dru., Casey p. 355.
1914 *brevicollis* Casey p. 355.
1914 *ingens* Casey p. 360.
1914 *ateunalis* Casey p. 360.
1915 Frost p. 141.
1915 Johnson p. 312.
1917 Nicolay p. 92.
1918 Dozier p. 331.
1920 Britton p. 243.
1922 Knull p. 79.
1924 Felt p. 303.
1924 Mundinger p. 315.
1925 Fisher pp. 76-78.
1925 Good p. 272 figs 15, 16.

Type locality: Virginia.

Distribution: Ontario to Florida, west to Louisiana, Iowa, Illinois, and Michigan. (Cockerell reports *virginensis* from Custer Co., Colo.; this was probably *angulicollis.)*

Mexico: San Geronimo, Guatamala (1800 ft.). Introduced into Cuba.

Maine: Paris VII-14.

Massachusetts: Framingham VII (14).

New York: Ithaca (4).

Pennsylvania: Common (Knull).

New Jersey: Medford VII (16); Lakehurst V-24 (4).

Virginia: Cobham (16); Falls Church IV-25 (10); Va. Beach VI-9

(10); Fairfax (10).
North Carolina: Black Mts. (9); Clarkton (10); S. Pines (c).
Georgia: Thomas IV (10).
South Carolina: Clemson College (c).
Florida: Crescent City (10); Haw Cr. (10); Tampa V-4 (10); Lemon City (10); Steinhatchet (10); Gainsville (Dozier).
Mississippi: Baxterville VII-18 (10).
Louisiana: Covington (10); Vowell's Mill VIII (4).
Alabama: Auburn (4).
Minnesota: Waldo (17).
Hosts: White pine *(Pinus strobus)*, pitch pine *(P. rigida)*, short leaf pine *(P. echinata)*, loblolly pine *(P. taeda)*, long-leaf pine *(P. palustris)*, and bald cypress *(Taxodium disticum)*.

223a. Var. LACUSTRIS Lec. (9317)

1859 Leconte p. 190.
1870 Pettit p. 102.
1873 Crotch p. 84.
1889 Hamilton p. 139.
1892 Kerremans p. 35.
1903 Kerremans p. 78.
1909 Casey p. 79.
1909 Kerremans p. 29.
1910 Muttkowski p. 136.
1914 Casey p. 255.

Type locality: Lake Superior Region.
Distribution: Ontario, south through the New England States, west to Wisconsin.
Maine: Cumberland Co. IX-24 (c).

Genus *CHALCOPHORELLA* Kerr.

1903 Kerremans p. 79.
Type of the genus **BUPRESTIS CAMPESTRIS** Say.

BISINUATA Casey, See FULLERI Horn

224. CAMPESTRIS Say (9323)

1823 *Buprestis campestris* Say p. 165.
1825 *Buprestis* Say p. 60.
1837 *Chalcophora prinoptera* Dejean p. 87.
1838 *Buprestis* Laporte et Gory II p. 13.
1838 *B. subtrigosa* Laporte-Gory II, p. 13 pl. 3 fig. 10.
1853 *Chalcophora langeri* Chevrolat p. 303, 396 pl. 6 fig. 1.
1854 *C. langeri* Chev.= *C. prinoptera* Dej.=*B. campestris* Say, Chevrolat p. 71.
1857 *Chalcophora langeri* Lacordaire p. 23.
1857 *Chalcophora* Lecordaire p. 23.

1857 *B. substrigosa* L. & G.=*B. campestris* Say, Leconte p. 7.
1857 *C. langeri* Chev.=*B. campestris* Say, Leconte p. 7.
1859 *C. langeri* Leconte p. 192.
1870 *Chalcophora* Pettit p. 102.
1873 *Chalcophora langeri*=*C. Campestris* Say, Crotch p. 84.
1878 *Chalcophora* Hubbard-Schwarz p. 655.
1880 *Chalcophora* Zesch & Reinecke p. VII.
1889 *Chalcophora* Smith J. B. p. 71
1890 *Chalcophora* Packard p. 642.
1892 Kerremans p. 35.
1895 *Chalcophora* Hamilton p. 364.
1902 Ulke p. 21, 47.
1903 *Chalcophorella* Kerremans p. 80.
1903 *C. substrigosa* L. & G., Kerremans p. 80.
1903 *C. langeri* Chev., Kerremans p. 80.
1905 *Chalcophora* Knaus p. 351.
1909 *Texania* Smith p. 291.
1909 Kerremans p. 74.
1909 *serriger* Casey, Kerremans p. 77.
1909 *Chalcophora* Burke p. 414 fig. 36.
1909 *Chalcophora* Blatchley p. 780.
1909 *Texania* Casey p. 85.
1909 *Texania langeri* Casey p. 87.
1909 *B. substrigosa* L. & G.=*campestris* Say, Casey p. 85.
1909 *Texania serriger* Casey p. 86.
1914 *obsolescens* Casey p. 360.
1914 *langeri* Casey p. 360.
1914 Casey p. 360.
1917 Burke pl. I fig. 2.
1920 Knull p. 4.
1922 Knull p. 79-80.
1925 Champlin & Knull p. 113.
1925 Good p. 272 fig. 18.

Type locality: "Arkansas River."
Distribution: Pennsylvania to Louisiana, west to Missouri and Texas.
Pennsylvania: Pittsburg (9); North Cumberland VII-6 (c); Hummelstown VI-10 (c); Harrisburg (Knull).
Maryland: Plumers Island IX-17 (8).
North Carolina: Tyron IV (10).
District of Columbia: Washington VI-5, VII-7 (10); Blagden Road III-2, IV-18 (10).
West Virginia: White Sulphur Springs VII-8 (10).
Louisiana: Vowell's Mill (4).
Ohio: Cincinnati (9).
Tennessee: Elmwood (13).
Texas: Bethage VII-10 (9).
Host: Maple *(Acer)*, Sycamore *(Platanus)*, Tulip *(Lireodendron)*, Beech *(Fagus atropunicea)*, *(F. americana)*, black willow *(Salix nigra)*, and buttonwood *(Platanus occidentalis)*, Linden *(Tilia americana)*.

225. FULLERI Horn (9322)

1875 *Chalcophora fulleri Horn* p. 147.
1889 *Chalcophora* Smith J. B. p. 71
1909 *Chalcophorella* Kerremans p. 71.
1909 *C. bisinuata* Cas., Kerremans p. 73.
1909 *Texania* Casey p. 86.
1909 *T. bisinuata* Casey p. 87.
1925 Good p. 272 fig. 17.

Type locality: Texas.
Distribution: Texas, Ohio, Virginia.
Texas: Hockley (9); Kerrville V-10 (9); Carmal Co. (4); Burnette Co. VI.
Host: Unknown.

LANGERI Chevrolat, See CAMPESTRIS Say

OBSOLESCENS Casey, See CAMPESTRIS Say

PRINOPTERA Dejean, See CAMPESTRIS Say

SUBSTRIGOSA Leporte-Gory, See CAMPESTRIS Say

Genus *CHRYSOBOTHRIS* Esch.

1829 Eschscholtz p. 8 (p. 9 in some editions).
Type of the genus BUPRESTIS AFFINIS Fab.

ACUMINATA Lec., See ACUTIPENNIS Chev.

226. ACUTIPENNIS Chev. (9421)

1834 Chevrolat p. 190.
1837 *cupreo-aenea* Lap.-G. p. 39 pl. 8 fig. 35.
1859 Leconte p. 237.
1859 *acuminata* Leconte p. 237.
1878 *cupreo-signata* Thomson p. 80
1886 Horn p. 107 pl. 6 fig. 188-192.
1887 Waterhouse p. 42 pl. 3 fig. 14.
1892 Kerremans p. 205.
1894 Horn p. 328.
1905 Schaeffer p. 130.

Type locality: Mexico.
Distribution: Texas: San Diego III-4 (10).
Arizona:
Lower California: (San Jose del Cabo).
Mexico: (Tuspan, Tamaulipas to Matamoras, Cerro de Plumas); British Honduras, Guatamala, Chocoj in Vera Paz, Torola (1000 ft.), Pantaleon (1700 ft.), Volcan de Antilan (3500 ft.), Yucatan, Durango, Nicaragua, Venezuela, Panama, Guiana and Cayenne.
Host:: Unknown.

*In the original work Escholtz spells the word *Chrysobotris*.

ADELPHA Geminger-Harold, See FEMORATA Fab.

227. AENEOLA Lec. (9409)

1859 Leconte p. 239.
1865 *purpurata* Bland p. 66.
1871 Saunders p. 96.
1873 *purpurata* Bl.=*aeneola* Lec., Crotch p. 90.
1886 Horn p. 113 pl. 7 fig. 322-326.
1892 Kerremans p. 206.
1903 Kerremans p. 189.
1903 *purpurata* Kerremans p. 189.
1901 Fall p. 117.
1907 Fall-Cockerell p. 180.
1913 Woodworth p, 195.

Type locality: Nebraska (17).
Distribution: Kansas, Nebraska, Wyoming, New Mexico, Nevada, Arizona, Texas and California.
California: Tallac (13); Siskiyou VIII (10).
Nevada: Verdi (4).
Wyoming: Yellowstone Park VII-26 (10).
(Lectotype No. 3293 and allotype No. 3293 both labeled "Neb." C. *purpurata Bland.* One also bears a label *aeneola* Leconte (17).)
Host: Unknown.

228. AEREA Chev.

1834 Chevrolat No. 33 p. 133.
1834 *costifrons* Chevrolat p. 133.
1837 Laporte-Gory p. 42 pl. 8 fig. 59.
1837 *mexicana* Dejean p. 90.
1886 Horn p. 104 pl. 6 fig. 173-177.
1887 *costifrons* Waterhouse p. 44.
1887 Waterhouse p. 44.
1887 *aerea* Horn=*costifrons* Chev., Waterhouses p. 44.
1892 Kerremans p. 206.
1909 Schaeffer p. 376.
1920 *aerea* Chev.=*costifrons* Leng. p. 182.

Type locality: Mexico.
Distribution: Arizona and Mexico.
Arizona: Cochise Co. VII (c); Nogalis VII-1 (4); Huachuca Mts. VII (c); Sabino Basin, St. Catalina Mts. IX-25 (10); Carr Canyon (17); Oricle VII-4 (10).
Mexico: Oaxaca.
Host: Bred from Arizona oak *(Quercus arizonica)*, Emory oak *(Q. emoryi)*, and greasewood *(Sarcobatus sp.)*

ALABAMAE Gory, a Variety of FEMORATA Fab.

229. ANALIS Lec. (9402)

1859 Leconte p. 238.
1873 Crotch p. 90.
1878 *austinii* Thomson p. 78.
1886 Horn p. 11 pl. 7 figs. 207-211.
1887 Waterhouse p. 40.
1892 Kerremans p. 206.
1894 Horn p. 367.
1903 Kerremans p. 189.
1903 *austinii* Thoms., Kerremans p. 189.
1905 Schaeffer p. 148.

Type locality: Texas (Rio Grande).

Distribution: Texas, Mexico (Matamoras, Oriziba, Yucatan), Guatemala.
Texas: Brownsville IV-27 (c); Devil's River VII-27 (8); Columbus VI-6 (10); San Diego V-7 (10).
Host: Unknown.

230. *ATABALIPA Lap.-Gory

1841 Laporte-Gory II p. 43 pl. 8 fig. 60.
1848 White p. 33.
1857 Leconte p. 8.
1858 *basilis* Leconte p. 68.
1859 Leconte p. 230.
1873 *basalis* Lec.=*atabalipa* L.-G., Leconte p. 332.
1886 Horn p. 72 pl. 2 figs. 1-5.
1892 *atabalipa* L.-G.=*multistigmosa* Mann., Kerremans p. 207.
1898 Cockerell p. 152.
1903 *basalis* Lec., Kerremans p. 186.
1903 Kerremans p. 186.
1907 Fall-Cockerell p. 179.

Type locality: Mexico.
Distribution: Arizona, New Mexico, California, Texas and Mexico.
Arizona: Yuma (4); Oracle (4); Hot Springs VI-24 (10).
Texas: Brownsville III-28 (10), V-19 (c); Laredo X-21 (10).
California: Placer Co., Death Valley IV (10).
New Mexico: Mesilla Valley (24).
Host: Unknown.

231. ATROFASCIATA Lec. (9410)

1859 *nigrofasciata* (name preoccupied) Leconte p. 240.
1873 *atrifasciata* n. n. for *nigrofasciata* (name preoccupied)) Leconte p. 332.
1886 Horn p. 116.
1892 Kerremans p. 207.
1894 Horn p. 368 pl. 7 figs. 237-242.
1898 Wickham p. 305.
1899 Wickham p. 235.
1903 Kerremans p. 189.
1903 *nigrofasciata* Kerremans p. 189.
1921 Nicolay p. 175.

Type locality: Arizona (near Yuma).
Distribution: Arizona and New Mexico.
Arizona: Yuma (22).
Host: Unknown.

AUSTINII Thoms., See ANALIS Lec.

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*According to Kerremans (1892, pp. 207, 217) *atabalipa* L.-G. is synonymus with *multistigmosa* Mann. In which case the latter name has priority of four years.

232. AXILLARIS Horn (9471)

1886 Horn p. 75 pl. 2 figs. 20-24.
1892 Kerremans p. 207.
1903 Kerremans p. 189.
1918 Burke p. 210.

Type locality: Southern Arizona.
Distribution: Arizona and Texas.
Arizona: Huachuca VI-28 c); Williams VI-1, VII-1 (10); Palmerlee VI-27 (16); Bear Canyon, St. Catalina Mts. (10); Catalina Springs IV-21 (10); Lectotype No. 3429 "Ariz." (17).
Texas: Chisos Mts. VII-24 (C); Paratype "Texas" (17).
Host: Emory oak *(Q. emoryi)*, Ariz. white oak *(Q. arizonica)*.

AZUREA Lec., See LECONTEI Leng.

233. BACCHARI Van Dyke

1923 Van Dyke p. 38.
Type locality: Los Gatos, Calif.
Distribution: California and Arizona.
Host: Chaparral broom *(Boccharis pilularis)* and *(B. serigiloides)*.

BASILIS Lec., See ATABALIPA Laporte-Gory

234. BEYERI Schaeffer (9430)

1904 Schaeffer p. 207.
Type locality: San Felipe, Bajo California.
Distribution: Lower California.
Lower California: San Felipe (16); Santa Rosa (c).
Host: Taken on willow *(Salix sp.)*.
Season: May-June.

235. BICOLOR Horn (9413)

1894 Horn p. 328, 366
1903 Kerremans p. 189

Type locality: San Jose Del Cabo, Lower California.
Distribution: Lower California, Arizona and Texas.
Lower California: Topotype "San Jose del Cabo" (17); Santa Rosa (c).
Host: Unknown.

BIGUTTATA (9449) Lap.-G., See PUSILLA Laporte-Gory

236. BIMARGINICOLLIS Sch. (9403)

1905 Schaeffer p. 148.
Type locality: Arizona (Miller's Canyon, Huachuca Mts.).
Distribution: Arizona.
Arizona: Palmerlee, Cochise Co. VI-22, VII-2 (16).
Host: On live oak *(Quercus chrysolepsis)*.

237. BISPINOSA Sch. (9417)

1909 Schaeffer p. 376.

Type locality: Nogalis, Arizona.

Distribution: Reported only from type locality.

Season: VIII-18 (16).

Host: Unknown.

238. BLANCHARDI Horn (9436)

1886 Horn p. 93 pl. 4 figs. 115-119.
1889 Blanchard p. 31.
1890 Packard p. 64.
1892 Kerremans p. 208.
1902 Ulke p. 21.
1903 Kerremans p. 190.
1906 Felt p. 751.
1909 Blatchley p. 790.
1916 Frost p. 386.
1918 Blackburn p. 16, 36, 37, 81 pl. 8 figs. 23, 24, 25.
1920 Knull p. 6.
1922 Knull p. 83.

Type locality: Tyngsboro, Mass. July 17, '76 (17).

Distribution: Maine to Maryland, west to Dakota and Texas.

(A specimen in the National Museum labeled Capitan N. M. IV Yellow pine.)

Maine:: Paris VII-19 (14), V-15 (c).

Massachusetts: Monterey VII-8 (14).

Pennsylvania: Rockville, Endeavor and Charter Oak (Knull).

Washington, D. C. (10); New York (4).

Texas: Davis Mts. IV-10 (10).

S. Dakota:: Buffalo Gap (10).

Host: Bred from white pine *(Pinus strobus)*, pitch pine *(P. rigida)*, scrub pine *(P. virginiana)*, and American larch *(Larix americana)*.

239. BREVILOBA Fall (9445)

1910 Fall p. 51.
1917 Gibson p. 149.
1918 Burke p. 211.
1924 Chamberlin p. 192.

Type locality: Colorado.

Distribution: British Columbia, Alberta, Colorado, Idaho and Oregon.

British Columbia: Fraser VII-4, 8000 ft. (9); Peachland (Wallis).

Alberta: Banff VII (Gibson).

Idaho: Cascade VI-20.

Colorado: Glenwood Springs, Buena Vista, Boulder, Floressent, Canyon City, Silver Plume 10,000 ft. June 20 (C);Pingree Park 8300 ft (Lovett).

Oregon: One specimen (c).

Host: Yellow pine and Lodgepole pine.

240. CALIFORNICA Lec. (9435)

1859 Leconte p. 255.
1859 Motschulsky p. 184.
1861 *vulcancia* Leconte p. 346.
1873 Crotch p. 90.
1883 *vulcancia* Leconte=*californica* Lec., Horn p. 287.
1886 Horn p. 93 pl. 4 figs. 110-114.
1892 Blaisdell p. 33.
1894 Fall p. 95.
1898 Cockerell p. 152.
1903 Kerremans p. 186.
1903 *vulcancia* Kerremans p. 186.
1907 Fall-Cockerell p. 179.
1908 Wright-Coolridge p. 67.
1910 Fall, p. 45, 47.
1913 Woodworth p. 195.
1917 Chamberlin p. 135.
1924 Chamberlin p. 190.

Type locality: Type specimen labeled "Cal."
Distribution: Oregon, California, Nevada (?), and New Mexico (?), (*vulcancia* Arizona).
California: Sierra Co. VI-18 (c).
Host: Unknown. Reported from apple *(Pyrus malus)* (Blaisdell, and pine (Fall), the specimens later proved to be other than *C. californica.*

241. CARINIPENNIS Lec. (9444)

1878 Leconte p. 459.
1886 Horn p. 91 pl. 4 figs. 100-105.
1895 Townsend p. 43.
1902 Cockerell p. 378.
1903 Kerremans p. 186.
1906 Evans p. 98.
1907 Fall-Cockerell p. 179.
1910 Fall p. 46, 49.
1912 Gibson p. 14.
1913 Gibson p. 126.
1913 Woodworth p. 195.
1914 Bush p. 59.
1916 Van Dyke p. 406, 408.
1920 Frost p. 232.
1924 Van Dyke p. 18.
1924 Chamberlin p. 190.

Type locality: Utah (American Fork Canyon 9500 ft.).
Distribution: British Columbia, south through the Pacific and Rocky Mountain States.
Washington: Spokane (4).
Oregon: Sumpter VI-VII (c); Sparta VIII (c).
Idaho: Cascade VI-20; Coeur d'Alene VII-29 (Evenden).
Montana: Glacier Park VIII-22, 4500 ft. (9).
Colorado: Florescent VIII-12, 8000 ft. (14); Glenwood Springs (13).
California:: Summerdale (10).
Nevada: (10), (1).
Michigan: ? (10).
New Mexico: Ft. Wingate (9); Capitan (10).
Utah: Panguitch (10).
Host: Yellow pine *(Pinus ponderosa)*, sugar pine *(P. lambertiana)*, lodge-pole pine *(P. contorta)*, Pinon *(P. edulis)*, western larch *(Larix occidentalis)*, and Douglas fir *(Pseudotsugae taxifolia)*.
Season: June to August.

242. CARMELITA Fall (9469)

1907 Fall, p. 236.

Type locality: Arizona (Hot Springs).

Distribution:: Reported only from type locality.

Host: Unknown.

243. CAURINA Horn (9447)

1886 Horn p. 92 pl. 4 figs. 105-109.
1899 Wickham pt. VII p. 235.
1903 Kerremans p. 190.
1910 Fall p. 46, 50.
1913 Woodworth p. 195.
1913 Gibson p. 11.
1914 Gibson p. 116.
1917 Chamberlin p. 135.
1918 Van Dyke p. 57.
1918 Garnett p. 92.
1924 Chamberlin p. 191.

Type locality: Nevada.

Distribution: British Columbia, Washington, Oregon, California, Colorado and Nevada.

Washington: Spokane, Chelan VI-13.

Oregon: Paratype "Ore." (17); Alsea VIII (10); Hideaway VII (10); Forest Grove VI-20; Portland IX-5; Sparta VIII (c); Sumpter VII (c); Ashland VII-3 (10.

California: Weed VII-VIII (c); Placerville VII (c); Strawberry VII-4 (c); Truckee 5800 ft. VIII (13); Yosemite Valley (25).

Nevada: Type "Nevada" (17); Verdi (4).

Arizona: Holotype "Ariz." (17); Flagstaff VII (c).

Colorado:: Bartlett Springs VII (13).

Host: Western larch *(Larix occidentalis)*, lodge-pole pine *(Pinus contorta)*, yellow pine *(P. ponderosa)*, juniper (?), Douglas fir *(Pseudotsuga taxifolia)* (10).

Season: June to August.

244. CHALCOPHOROIDES Horn (9424)

1886 Horn p. 110 pl. 6 figs. 203-206.
1887 Schwarz p. 39.
1888 Schwarz p. 93.
1890 Packard p. 69.
1892 Kerremans p. 209.
1903 Kerremans p. 190.

Type locality: Arizona.

Distribution: Arizona.

Arizona: Senator VI-1 (4); Huachuca Mts. V (17); Holotype "Ariz." (17).

Host: Reported from Arizona white oak *(Quercus arizonica)*.

CHARACTERISTICA Harris, See DENTIPES Germar

CHLOROCEPHALA Gory, See HARRISII Hentz

245. CHRYSOELA Illiger (9400)

1800 Illiger p. 122.
1801 *hybernata* Fabricii p. 209.
1833 *melicula* Dejean p. 90.
1836 *hybernata* Fab., Say p. 158.
1841 Laporte-Gory II p. 16 pl. 4 fig. 24.
1841 *viridipunctata* Laporte-Gory II p. 21 pl 4 fig. 31.
1841 *hybernata* Fab., Laporte-Gory II p. 16 pl 4 fig. 24.
1843 *hybernata* Fab., Strum p. 61.
1857 Leconte p. 8.
1859 Leconte p. 238.
1873**viridifunctata* Gory is var. of *hybernata* Fab., Leconte p. 332.
1877 Provancher p. 7, 312.
1878 Schwarz p. 451.
1883 Leconte p. 591.
1886 Horn p. 114 pl. 7 figs. 227-231
1888 Schwarz p. 93.
1892 Kerremans p. 209.
1894 Horn p. 367.
1895 Hamilton p. 318.
1896 Castle-Laurent p. 303.
1897 Castle p. 8.
1901 Scott p. 28.
1902 Fisk p. 68.
1903 Kerremans p. 185.
1903 *hybernata* Kerremans p. 185.
1903 *viridipunctata* Kerremans p. 185.
1903 Wickham p. 69.
1913 Manee p. 303.
1914 Blatchley p. 89.
1917 Blatchley p. 239.
1918 Schaeffer p. 212.
1918 Dozier p. 331.
1925 Fisher p. 121.
1925 Chapin p. 33.

Type locality:: America.

Distribution: Southern States, Virginia to Florida, west to Texas.

Cape Henry, Va. VI (10); Mobile, Ala. 1-3 (9); Wilmington, N. C. (8); Georgia (4); Willis, Tex. (c).

Florida: Lake Istakpoga II-25; Ft. Mayer III-10; Sanebel Island II-25; Crescent City (10); Miami Key (10); Paradise Beach III (10); Lake Worth, Houlover, Enterprise (9); Lake Ashby, Dunedin IX, III; Gainesville Nov. 1 (Dozier).

Host: Beaten from oak *(Quercus sp.)* and wax myrtle *(Myrica cerifera)*. Bred from Florida buttonwood *(Conocarpas erecta)*, *(Lepostylus argentatus)* and Pecan *(Hickoria pecan)* (10).

CICATRICOSA Mots., See TRINERVIA Kirby

CONCINNULA L. G., See SCITULA Gory

*Typographical error.

246. CONTIGUA Lec.

1859 Leconte p. 255.
1859 *semisculpta* Leconte p. 254.
1859 *purpurifrons* Mots. p. 183 (9456).
1871 Saunders p. 98.
1873 Crotch p. 90.
1883 *semisculpta* Lec. = *contigua* Lec., Horn p. 287.
1883 *purpurifrons* Mots.=*contigua* Lec., Horn p. 287.
1886 Horn p. 80 pl. 2 figs. 35-39.
1892 *contigua* Lec. = *purpurifrons* Mots., Kerremans p. 209.
1892 *semisculpta* Blaisdell p. 33.
1913 Woodworth p. 195.
1917 Chamberlin p. 135.
1924 Chamberlin p. 189.

Type locality: California.

Distribution: Washington, Oregon, California, Arizona, Idaho and Nevada.

Oregon: Sumpter VI, VII (c); Sparta VIII (c).

California: Fallen Leaf Lake (10); Tallac VII (13); Carrville V-21 (13); Castle Crag VII (13); Miami VI, VII (13); Raymond V (13); McCloud VI (13); Weed VI-VII, VIII (c); Phillips VII-2 (c).

Colorado (4).

Arizona: Phoenix (10); Prescott VI, VII (13).

Idaho: Centerville VIII (10); Cascade VI-16 (c).

Nevada: Lake Tahoe VII-10 (10).

Host:: Yellow pine *(Pinus ponderosa)*, lodge-pole pine *(P. contorta)*, Sugar pine *(P. lambertiana)*, Jeffreyi pine *(P. jeffreyi)* and on Live oak *(Quercus californica)*.

247. CONVEXA Fall (9404)

1907 Fall p. 179, 233.

Type locality: New Mexico (Alamogordo).

Type in Amer. Entom. Soc. Coll., Philadelphia, Pa.

Distribution: New Mexico and Texas.

New Mexico: Lectotype, Almagordo V-16 (17).

Texas: Chilsos Mts. VII-25 (8).

COSTIFRONS Chev., See AEREA Chevrolat

CRIBRARIA Dejean, See FEMORATA Fab.

248. CUPRASCENS Lec. (9433)

1859 Leconte p. 234.
1873 Crotch p. 90.
1883 Horn p. 287.
1886 Horn p. 81 pl. 2 fig. 40-44.
1891 Wickham p. 132.
1892 Kerremans p. 210.
1895 Fall p. 98.
1898 Cockerell p. 152.
1898 Wickham p. 305.
1901 Fall p. 117.
1903 Kerremans p. 186.
1905 Knaus p. 351.
1907 Fall p. 177.
1924 Chamberlin p. 190.
1924 Van Dyke p. 18.

Type locality: New Mexico (Santa Fe).
Distribution:: Colorado, Arizona, New Mexico, Texas and California.
Colorado: Salida (c); Boulder (8).
Arizona: Prescott (4); Pinal Mts. (4); Phoenix (7); Williams VII-17 (10); Bright Angle VII-10 (10); Palmerlee VIII-4 (8).
New Mexico: Santa Fe VIII (13); Coolidge (4); Los Vegas VIII-8 (10).
Texas: Davis Mts. VII-9 (8).
California:: (Abundant on pine in San Bernardino Mts. July-Aug.) (Fall).
Host: Beaten from yellow pine *(Pinus ponderosa)*.

CUPREO-AENEA L.-G., See ACUTIPENNIS Chev.

CUPREO-SIGNATA Thoms., See ACUTIPENNIS Chev.

249. CYANELLA Horn (9476)

1886 Horn p. 102 pl. 5 figs. 164-168.
1892 Kerremans p. 210.
1901 Fall p. 117.
1903 Kerremans p. 187.
1904 Schaeffer p. 208.
1913 Woodworth p. 195.
1916 Van Dyke p. 411.
1917 Chamberlin p. 139.
1924 Chamberlin p. 192.

Type locality: Type "Cal." (17); paratype Yreka, Cal. (17).
Distribution: California and Oregon.
California: Siskiyou, Shasta and El Dorado Counties (15); Pasadena VI (13); Bishop VII (13); Paradise Valley VII-16 (c).
Oregon: Ashland VI-12 (c).
Host: Taken on buckwheat *(Erigonum)*. Probably breeds in yellow pine *(Pinus ponderosa)* twigs.

250. DEBILIS Lec. (9470)

1859 Leconte p. 236.
1859 *disjuncta* Leconte p. 236.
1873 *disjuncta* Lec.=*debilis* Lec., Crotch p. 90.
1886 Horn p. 75 pl. 2 figs. 15-19.
1887 Waterhouse p. 47.
1892 Kerremans p. 210.
1898 Cockerell p. 152.

1900 Griffith p. 568.
1901 Fall p. 117.
1902 Cockerell p. 378.
1902 Van Dyke p. 173.
1903 Kerremans p. 187.
1903 *disjuncta* Lec., Kerremans p. 187.
1907 Fall p. 237.
1907 Fall-Cockerell p. 179.
1918 Van Dyke p. 58.
1918 Burke p. 210.

Type locality: Ohio.
Type locality of *disjuncta:* Arizona.
Distribution:: Texas, Arizona, New Mexico, Mexico, Utah, Colorado, California and Ohio.
Texas: El Paso IV (13); Ysleta (17); Aqua Nigro V-19 (10); Chisos Mts. (8); Carmal Co. (1).
Arizona: Senator (4); Rincon Mts. 5000 ft. (1); Hot Springs VI-23 (10); Sabino Canyon V-13, VI-30 (10); Huachuca Mts. (17); San Bernardino Ranch, St. Catalina Mts. 3750 (9); Catalina Springs IV-20 (10); St. Rita Mts. VII-12 (10); Phoenix (c); Yuma IV (13); Tucson VI-4 (c).
New Mexico: Los Crucis, Mesilla Valley (25).
Utah:: St. George (9).
Colorado: Florence VI-28 (8); Boulder (8).
California: San Diego Co. (10); Death Valley IV (10); Kings River VI-15, 6000 ft. (7); Palm Springs IV (13); Banning V-VII (c).
Lower California: Santa Rosa (1).
Host: Hackberry *(Celtis reticulata)*, cat's claw *(Acacia greggii)*, palo verde *(Cercidium torreyanum)*, emory oak *(Quercus emoryi)*, mesquite *(Prosopis grandelosa)*, and *(P. juliflora)*.
Season: May to October.

251. DELETA Lec. (9453)

1859 Leconte p. 255.
1859 Motschulsky p. 182.
1859 *subcylindrica* Motschulsky p. 182 pl. 4 fig. 17.
1871 Saunders p. 97.
1873 Crotch p. 90.
1886 Horn p. 99 pl. 5 fig. 150-154.
1892 Kerremans p. 211.
1903 Kerremans p. 190.
1903 *subcylindrica* Mots., Kerremans p. 190.
1907 Fall p. 338.
1913 Woodworth p. 195.
1917 Chamberlin p. 139.
1924 Chamberlin p. 192.

Type locality: Owens Valley, California.
Distribution: Washington, Oregon, California, Nevada and Utah.
California: Los Angeles (10); Palm Springs (13); Tallac (13); Freeman VII (13); Castella, Shasta, Lake Tahoe, San Diego VII (13); Azusa VI (13); Yuma V (13); Pasadena V (13).
Nevada: Reno VII (13).
Utah: Virginia River (4).

New Mexico:: Silver City (14).
Oregon: Condon VII-8 (c); Sparta VII-3 (c).
Host: Mesquite *(Prosopis juliflora)*.

DENTICOLLIS L.-G., See TRANQUEBARICA Gmelin

DENTICULATA L.-G., See TRANQUEBARICA Gmelin

252.—DENTIPES Germar. (9461)

1824 Germar p. 38-39.
1829 *characteristica* Harris Vol 8 p. 2.
1833 *plicata* Dej. 2 ed. p. 80 (No description).
1836 Say p. 158.
1837 Mannerheim p. 76.
1838 *posticalis* Leconte-Gory p. 56.
1838 *planata* Laporte-Gory II p. 56 pl. 10 fig. 76.
1838 *rotundicollis* Laporte-Gory II p. 51 pl. 9 fig. 69.
1843 *ruficornis* Strum p. 61.
1850 Leconte p. 227.
1852 Harris p. 49.
1857 Fitch p. 703.
1857 *planata* L.-G.=*dentipes* Ger., Leconte p. 9.
1857 *posticalis* L.-G., Leconte p. 9.
1859 Leconte p. 235.
1869 Glover p. 91.
1870 Pettit p. 102.
1873 Crotch p. 90.
1874 Austin p. 269.
1877 Provancher p. 356.
1878 Glover pl XI fig. 18.
1878 Hubbard-Schwarz p. 636, 656.
1878 Schwarz p. 451.
1878 Leconte p. 459.
1880 Zesch-Reinecke p. VII.
1881 Packard p. 12.
1882 Leconte List 1.
1883 Leconte p. 591.
1886 Horn p. 87 pl. 3 fig. 75-79.
1886 *characteristica* Har.=*dentipes* Germ., Horn p. 119.
1886 *posticalis* L.-G. = *dentipes* Germ., Horn p. 119.
1886 *planata* L.-G.=*dentipes* Germ., Horn p. 119.
1889 Chittenden p. 220.
1889 Caulfield p. 58.
1889 Blanchard p. 31.
1890 Harrington p. 159.
1890 Packard p. 60, 679.
1890 Harrington p. 58.
1892 Kerremans p. 211.
1895 Slosson p. 319.
1895 Evans p. 146.
1896 Bowditch p. 6.
1898 Cockerell p. 152.
1899 Wickham pt VII p. 235.
1902 Ulke p. 21, 47.
1903 Felt p. 449.
1903 Kerremans p. 187.
1903 *charicteristica* Har., Kerremans p. 187.
1903 *posticalis* L.-G., Kerremans p. 187.
1903 *planata* L.-G., Kerremans p. 187.
1903 *ruficornis* Strum., Kerremans p. 187.
1904 Hopkins p. 38.
1904 Felt p. 419.
1906 Felt p. 648, 657.
1907 Fall-Cockerell p. 179.
1909 Blatchley p. 790.
1909 Eaton p. 50.
1909 Wickham p. 23.
1909 Smith p. 293.

1910 Fall p. 49.
1912 Davis-Leng p. 120.
1912 Frost p. 306.
1913 Manee p. 170.
1916 Van Dyke p. 412.
1917 Nicolay p. 93.
1917 Chagnon p. 218.
1917 Chamberlin p. 135.
1918 Blackman p. 20, 36, 83 pl. 9 fig. 27.
1922 Knull p. 83.
1919 Blackman p. 90.
1920 Chamberlin p. 242.
1920 Knull p. 6.
1920 Britton p. 244.
1922 Knull p. 83.
1923 Frost p. 281.
1924 Chamberlin p. 190.
1924 Felt p. 304.
1924 Mundinger p. 316.
1925 Fisher pp. 93, 103-106.
1925 Good. pp. 255, 272 fig. 19.

Type locality: North America.
Distribution: Southern Canada and entire United States.
Maine:: Paris (14); Wales (14); Monmouth VIII-22 (c).
New York: Buffalo (10).
Pennsylvania: Hummelstown (3); (Common in the State) (Knull).
North Carolina: So. Pines V-18 (8).
Virginia: Nelson Co. V-7 (c).
Florida: Kissimmee (9).
Louisiana: Covington VI-14 (10).
Mississippi: Baxterville VII (10).
Ohio: Cincinnati (11).
Michigan: Marquette VII-24 (10).
Wisconsin: Bayfield (9).
South Dakota: Elmore VIII (10).
Iowa: Ames (W); Iowa City (W).
Montana: Billings VII (c).
Idaho: Centerville VII (10); Cascade VI-26 (c).
Wyoming: Cheyenne Can. (10).
Colorado: Waldo Can. (10).
Utah: Panguitch (10).
Arizona: Magdalena Mts. VIII (13); Williams (c); Flagstaff VI-7 (c).
Washington:: Pullman (10).
Oregon: Bend VI (c); Sparta VIII-2 (c).
California: Tallac (13); Weed (c); Strawberry VII (c).
The recorns given are merely to indicate the range and no attempt has been made to set down all records noted.
Host: The pines of the United States. Bred from American larch *(Larix americana)*. Reported from oak (Glover).

DENTIPES L.-G., See FEMORATA Fab.

253. DESERTA Horn (9454)

1886 Horn p. 100 pl. 5 fig. 155-158.
1892 Kerremans p. 211.
1903 Kerremans p. 190.
1907 Fall p. 239.
1913 Woodworth p. 196.

Type locality: Mojave Desert, California.
Distribution: Southern California, desert region.
California: Lectotype (male) Mojave (17); San Diego (13); Owens Lake VII-19 (c).
Host: Unknown.

DISJUNCTA Lec., See DEBILIS Lec.

DISSIMILIS Dejean, See FEMORATA Fab.

254. DOLATA Horn (9460)

1886 Horn p. 87 pl. 3 figs. 71-74.
1892 Kerremans p. 212.
1901 Fall p. 117.
1903 Kerremans p. 190.
1913 Woodworth p. 196.
1917 Chamberlin p. 136.
1924 Chamberlin p. 190.
1924 Van Dyke p. 18.

Type locality: Nevada.
Distribution: Oregon, California and Nevada.
Oregon: Cable Cove VI-27 (10); Ft. Klamath (17); Grant Co. VI, VII (c).
California: Weed VII (c); Yosemite (11); Fallen Leaf Lake (10).
Nevada:: Type and paratype "Nev." (17).
Host: Yellow pine *(Pinus ponderosa)*, lodge-pole pine *(P. contorta)*, sugar pine *(P. lambertiana)*, and Jeffrey pine *(P. jeffreyi)*.

255. EDWARDSII Horn (9427)

1886 Horn p. 74 pl. 1 figs. 11-14.
1892 Kerremans p. 212.
1894 Horn p. 328.
1903 Kerremans p. 190.
1905 Schaeffer p. 129.
1918 Burke p. 210.

Type locality: Arizona (Tucson).
Distribution: Lower California, Arizona and Texas.
Texas: El Paso (4).
Lower California: San Jose del Cabo (1).
Arizona: Ft. Grant (8); Florence VIII-10, IX-4 (16); Hot Springs VI-25 (10); Type no. 3428 Tucson (17); Palmerlee VII-10 (c).
Host: Octoillo *(Fouquieria splendens)*.
Season: August and September.

EXCAVATA Oliver, See TRANQUEBARICA Gmelin

256. EXESA Lec. (9438)

1858 Leconte p. 68.
1859 Leconte p. 231.
1883 Horn p. 287.
1886 Horn p. 95 pl. 4 figs. 125-129.
1887 Waterhouses p. 41.
1892 Kerremans p. 212.
1898 Cockerell p. 152.
1903 Kerremans p. 186.
1907 Fall p. 179.
1918 Burke p. 211.
1918 Van Dyke p. 58.

Type locality: Arizona.
Distribution: California, Colorado, Arizona, New Mexico and Mexico.
California: Imperial Co. (15); Riverside Co. (15); Palm Springs IV (15).
Arizona: Sta. Catalina Mts. (10); Sta. Rita Mts. (17); Carr Canyon (17); Tucson IV-29 (c); Huachuca Mts. (c).
Texas: Uvada V (10); Newcest IV-26 (10); Carmal Co. (1).
Mexico: Sonora.
New Mexico: Messila Valley (25).
Host: Reared from Mesquite *(Prosopis juliflora)* and cat's claw *(Acacia greggii)*.

257. FALLI Van Dyke (9446)

1918 Van Dyke p. 56.
Type locality: California (Donner Lake, Placer Co.).
Distribution: California.
California: Independence VII-12 (15); Lake Tahoe VII-21 (15); Tuolumne Meddows (15); Yosmeite VII-18 (15); Forest Hill IV (15).
Host: Yellow pine *(Pinus ponderosa)*, Jeffrey pine *(P. jeffreyi)*, lodgepole pine *(P. murryana)*.
Season: July.

FASTIDIOSA Gory, See LESUERI Gory

258. FEMORATA Oliver (9466)

1790 *Buprstis* Olivr p. 47 No. 60 pl. 11 fig. 121.
1801 Fabricii p. 208.
1801 *insculpta* Herbst p. 145 fig. 10 pl. 146.
1801 Herbst p. 226 No. 144 pl. 152 fig. 4.
1805 Illiger p. 93 No. 122.
1817 Schonherr p. 235.
1817 *insculpta* Schonherr p. 235.
1829 Harris p. 8.
1837 *dissimillis* Dejean p. 90.
1837 *cribraria* Dejean p. 90.
1837 Dejean p. 90.
1837 *cribraria* Mannerheim p. 77.
1841 *nigritula* Laporte-Gory II p. 54 pl. 10 fig. 75.
1841 *quadri-impressa* Laporte-Gory p. 48 pl. 9 fig. 64.
1841 *alabamae* Gory IV p. 185 pl. 32 fig. 183.
1341 *dissimilis* Gory (Suppl.) p. 181 pl. 31 fig. 177.
1841 *dentipes* Laporte-Gory p. 52 pl 9 fig. 64.

1843 Strum p. 61.
1844 *viridiceps* Melsheimer p. 147.
1844 *rugosiceps* Melsheimer p. 147.
1848 White p. 33.
1848 *lesuerui* White p. 34.
1850 Leconte p. 227.
1852 Harris p. 50.
1855 Fitch p. 25, 31.
1856 Fitch p. 325.
1856 Fitch p. 207.
1856 Fitch p. 240, 241.
1856 Fitch p. 25.
1857 Leconte p. 8.
1857 *quadri-impressa* L.-G.=*femorata* Fab,. Leconte p. 8.
1857 *alabamae* Gory, Leconte p. 8.
1857 *dimmisilis* Gory, Leconte p. 8.
1859 Leconte p. 231.
1859 *soror* Leconte p. 232 (name preoccupied).
1859 *obscura* Leconte p. 232.
1859 *missella* Leconte p. 233.
1862 Walsh p. 119.
1866 Walsh p. 26, 47.
1868 Glover p. 91 fig. 97.
1869 *adelpha* Gemminmer-Harold p. 1423.
1869 Harris p. 36, 358.
1869 Riley p. 46.
1869 Glover p. 91.
1869 Broadhead p. 120.
1869 Riley p. 120.
1869 Clemons p. 168.
1870 Elliott p. 309.
1870 Pettit p. 102.
1870 *quadri-impressa* Pettit p. 102.
1870 Weilandy p. 146.
1870 Riley p. 309.
1870 Bethune p. 71.
1871 Bethune p. 6.
1871 Glover p. 65, 67.
1872 Chambers p. 124.
1872 Clemente p. 37.
1873 Bethune p. 140.
1873 *alabamae* Gory = *femorata* Fab., Leconte p. 331.
1873 *nigritula* L.-G. = *femorata* Fab., Leconte p. 331.
1873 *difficilis* = *rugosiceps* Mels., Leconte p. 331.
1873 *quadri-impressa* Gory is *missella* Lec. Leconte p. 332.
1873 *sorar* Lec. = *femorata* Fab., Crotch p. 90.
1873 *leseuri* L.-G.=*femorata* Fab., Crotch p. 90.
1873 *obscura* Lec.=*femorata* Fab., Crotch p. 90.
1873 *semisculpta* Herbst.=*femorata* Fab., Crotch p. 90.
1873 *mesilla* Lec.=*femorata* Fab., Crotch p. 90.
1873 Cook p. 22, 23.
1874 Cook p. 16.
1874 Henshaw p. 17.
1875 Bethune p. 13.
1875 Riley p. 71, 79 fig. 12, 13.
1875 Bartlett p. 244.
1876 Thomas p. 110-111.
1877 Bethune p. 224.
1877 Provancher p. 356.
1877 *soror* Lec., Provancher p. 357.
1877 Bethune p. 25.
1878 Hubbard-Schwarz p. 636, 656.
1878 Schwarz p. 451.
1878 Glover pl. XI fig. 15; pl. C fig. 25 (larva).
1878 *lesueri* Glover pl XI fig. 5.
1878 *soror* Glover pl. XI fig. 5.
1878 *mesilla* Glover pl. XI fig. 5.
1880 Zesch-Reinecke p. VII.
1881 Packard p. 77.
1883 *soror* Lec. = *exesa* = *cribraria* Horn p. 286.
1884 Harrington p. 44.
1884 Townsend p. 221.
1885 Lintner p. 27.
1886 Horn p. 137.

1886 Horn p. 119.*
1886 Horn p. 77 pl. 2 figs. 30-34.
1887 Harrington p. 31.
1887 Bethune p. 57 fig.
1888 Weed p. 27, 28.
1888 Harvy p. 155, 157.
1888 Murtfeldt p. 99.
1888 McMillan p. 85, 86 fig.
1888 Weed p. 58.
1889 Chittenden p. 220.
1889 Caulfield p. 58.
1889 Webster p. 4.
1889 Gillette p. 177-178 fig.
1889 Blanchard p. 31.
1890 Harrington p. 58.
1890 Clark p. 161.
1890 Washburn p. 10, 11 fig.
1890 Forbes p. 295.
1890 Osburn p. 261.
1890 Packard, pp. 62, 64, 291, 385, 424, 481, 520, 539, 669.
1891 Riley-Howard p. 412.
1891 Harrington p. 71.
1892 Kerremans p. 213.
1892 Hopkins p. 257.
1892 Washburn p. 7.
1892 Osburn p. 117.
1892 Blaisdell p. 33.
1893 McCarthy p. 95, fig.
1893 Chambliss p. 8-9.
1893 Riley p. 92.
1893 Bruner p. 166.
1893 Atwood p. 9-10.
1893 Schwarz p. 136.
1893 Hopkins p. 181.
1894 Davis p. 78.
1894 Riley p. 206.
1894 Jack p. 137.
1895 Fall p. 98.
1895 Hamilton p. 364.
1895 Evans p. 146.
1895 Piper p. 66.
1895 Strinson p. 71-72.
1895 Davis p. 22-23.
1895 Card p. 127-130.
1895 Washburn p. 7.
1896 Wolcott p. 236.
1896 Bowditch p. 6.
1896 Fletcher p. 187.
1896 Bowditch p. 387.
1897 Chittenden p. 71.
1897 Harrington p. 70.
1897 Boque p. 10-12.
1897 Cordley p. 108.
1897 Perkins p. 16.
1897 Crow p. 4.
1897 Hillman Bul. 36.
1897 Lintner p. 307.
1898 Cockerell p. 151.
1898 Hopkins p. 46.
1898 Stedman p. 16-19.
1898 Foville-Parrott p. 47-49.
1898 Chittenden p. 44.
1898 Butz p. 13.
1898 Brunner p. 121.
1899 Beach, etc., p. 389.
1899 Harvey p. 109.
1899 Lugger p. 53.
1899 Lugger pp. 137-140.
1899 Felt p. 917.
1900 Smith Cir. 14.
1900 Pettit p. 28.
1900 Close p. 39.
1900 Cooley p. 64.
1900 Chittenden p. 65.
1900 Pettit p. 36, 37, 41.
1901 Cox p. 40.

*Horn lists the following synonyms: *insculpta* Herb., *quadri-impressa* L.-G., *nigritula* L.-G.,*cribraria* Mann., *dissmelis* Gory, *viridiceps* Mels., *rugosiceps* Mels., *soror* Lec., *lesueri* L.-G., Var. *nigritula* L.-G., *obscura* Lec., *misella* Lec., *adelphia* G.-G., *alabamae* Gory.

1901 Felt p. 834.
1901 Fall p. 117.
1901 Fletcher p. 197.
1901 Fletcher p. 240
1901 Johnson p. 220.
1901 Brunner p. 51.
1901 Scott p. 28.
1901 Walker p. 22.
1902 Gillette p. 10, 40.
1902 Banks p. 40.
1902 Fisk p. 68.
1902 Chittenden p. 726.
1902 Ulke p. 21, 47.
1903 Kerremans p. 187.*
1903 Cooley p. 224-227 fig.
1903 McClatchie p. 307-310 fig.
1903 Felt p. 172.
1903 Felt p. 23.
1903 Sherman p. 45.
1903 Knaus p. 176.
1903 Pettit p. 7.
1904 Patch-Johannsen p. 7.
1904 Gibson p. 60.
1904 Horsefall p. 31.
1904 Felt p. 491.
1904 Hopkins p. 38.
1904 Washburn p. 55.
1905 Stevenson p. 92.
1905 Felt p. 86, 261.
1905 Schaeffer p. 130.
1906 Tucker p. 11.
1906 Felt p. 503.
1907 Britton p. 333.
1907 Hitchings p. 100.
1907 Chittenden p. 9-11.
1907 Fall-Cockerell p. 179.
1908 Garcia p. 48.
1908 Garmen p. 48-49.
1908 Morris p. 443.
1909 Wickham p. 23.
1909 Easton p. 50.
1909 Rumsey W. E. & Brooks F. E. p. 16.
1909 Smith p. 293 fig. III.
1909 Douglas p. 78.
1909 Schaeffer p. 376.
1909 Blatchley p. 789.
1909 Morris p. 58.
1910 Fall p. 48.
1911 Swaine p. 92.
1911 *quadri impressa* Gibson p. 14.
1911 Swaine p. 62, 72, 100.
1911 Douglas p. 111.
1912 Douglas p. 59-60.
1912 Walker p. 62.
1912 Back p. 40.
1912 Gibson p. 100.
1912 Bolden p. 59.
1912 Lamson p. 62.
1912 *quadri-impressa* Gibson p. 100.
1912 Frost p. 306.
1913 Patch p. 73.
1913 Quaintance p. 76.
1914 Bolden p. 33.
1914 Comstock p. 549.
1914 Wilson pp. 1-6.
1915 Adams pp. 144, 146, 148 fig. 5
1915 Essig p. 234.
1915 Wilson pp. 5, 51.
1915 Petch p. 71.
1915 Somers p. 13.
1916 Morrill pp. 28-31.
1916 Van Dyke p. 409.
1917 Chagnon p. 219.
1917 Chamberlin p. 135.
1917 Sanderson-Peairs p. 294.
1917 Burke p. 328.
1918 Dozier p. 331.
1918 Beal p. 18.

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*Kerremans lists the following synonyms on p. 187: *insculpta* Herbst, *cribraria* Mann., *quadri impressa* L.-G., *dentipes* L.-G., *nigritula* L.-G., *dissimilis* Gory, *alabamae* Gory, *viridiceps* Mels., *rugosiceps* Mels., *soror* Lec., *obscura* Lec., *misella* Lec., and *adelpha* G. & H.

1918 Matz pp. 157-159 fig. 70.
1919 Morris p. 50.
1919 Burke pp. 326-330.
1919 Chase pp. 26-28.
1919 Nicolay p. 19.
1919 Severin p. 7.
1919 Herbst pp. 333-337.
1919 Brooks pp. 1-12 figs. 1-13.
1920 Chamberlin pp. 105-108, 244.
1920 *quadri-impressa* Britton p. 244.
1920 Britton p. 244.
1920 Rohwer pp. 411, 413, 439, 469.
1920 Harrington p. 174.
1920 Heseman p. 5.
1920 Knull p. 6.
1921 Sanderson p. 524.
1921 Bentley p. 26.
1921 Chamberlin p. 105.
1921 Fernald p. 106.
1922 Wellhouse p. 1050.
1922 Scholl p. 74.
1922 Glick p. 55.
1922 Howard pp. 42-43.
1922 Severin pp. 55-60.
1922 Quaintance-Zeigler p. 73.
1922 Knull p. 83.
1922 Severin pp. 55-60.
1922 Burke p. 12.
1923 Frost p. 281.
1923 Watson p. 17.
1923 Felt p. 88.
1923 Lovett p. 4.
1923 Gillette p. 15.
1923 Severin pp. 21-23.
1924 Rushman p. 68.
1924 Gill p. 38.
1924 Felt p. 35.
1924 Rhodes p. 60.
1924 Blackman and Stag pp. 14, 16, 19, 21, 22, 23, 64.
1924 Mundinger p. 316.
1924 Chamberlin p. 189.
1924 Hatch p. 571.
1925 Chapin p. 33.
1925 Good p. 253.

Type locality: "Boreal America."

Distribution: Every state in the United States; also in Canada and Mexico.

Host: White oak *(Quercus alba)*, gambel oak *(Q. gambeli)*, live oak *(Q. chrysolepis)*, California black oak *(Q. californica)*, California live oak *(Q. agrifolia)*, black oak *(Q. velutina)*, interior live oak *(Q. wislizeni)*, chestnut oak *(Q. prinus)*, valley oak *(Q. lobata)*, blue oak *(Q. douglasii)*, white pine *(Pinus strobus)*, western white pine *(P. monticolae)*, yellow pine *(P. ponderosa)*, lombardy poplar *(Populas nigraitalica)*, fremont poplar *(P. fremontii)*, Carolina poplar *(P. deltoides)*, aspen *(P. tremuloides)*, black cottonwood *(P. trichocarpa)*, smooth leaf willow *(Salix laevigata)*, arroyo willow *(S. lasiolepis)*, imported maple *(Acer dasycarpum)*, silver maple *(A. saecharinum)*, Oregon maple *(A. macrophylum)*, soft maple *(A. rubrum)*, birch *(Betula alba)*, hickory *(Hickoria sp.)*, beach *(Fegas sp.)*, sycamore *(Plantanus sp.* ash *(Fraxinus americanus)* mountain ash *(F. velutina)*, chestnut *(Castenia sp.)*, horse chestnut *(C. dentata)*, box elder *(Acer negundo)*, linden *(Tilia americana)*, while alder *(Alnus rhombifolia)*, black walnut *(Juglans nigra)*, pecan *(Hickoria pecan)*, hack berry *(Celtis ocidentalis)*, sweet gum *(Liquidamber stryaciflua)*, blue gum *(Eucalyptus globulus)*, Texas redbud *(Cercis reniformis)*,

wild plum *(Prunis americana)*, domestic prune *)P. domestica)*, peach *(P. persica)*, apple *(Pyrus malus)*, pear *(P. communis)*, cherry *(Prunis avium)*, currant *(Ribes rubrum)*, apricot *(Prunis americana)*, rose *(Rosa sp.)*, quince and raspberry *(Ribes)*.

Season: March to September.

258a. Variety LESUEURI Laporte-Gory (9467)

1841 Laporte-Gory II p. 49 pl. 9 fig. 66.
1841 *fastidiosa* Laporte-Gory p. 180.
1848 White p. 34.
1857 Leconte p. 8.
1859 Leconte p. 231.
1873 *lesueri* Gory is *soror* Lec. Leconte p. 332.
1873 *fastidiosa* Gory is *lesueuri* Lec. Leconte p. 332.
1878 Glover pl. 11 fig. 5.
1879 Gardner p. 212.
1892 Kerremans p. 213.
1903 Kerremans p. 187.
1906 Tucker p. 11.

Type locality: "Boreal America."
Distribution: New York and Texas.
Host: See note below.

FEMORATA Laporte-Gory

The **FEMORATA** of Laporte-Gory is **FLORICOLA** Gory.

259. FLORICOLA Gory (9464)

1841 Gory (Suppl.) p. 179 pl. 30 fig. 175.
1841 *femorata* Laporte-Gory p. 48 pl. 9 fig. 65 (error in classification).
1857 Leconte p. 9.
1878 Schwarz p. 451.
1878 Hubard-Schwarz p. 636.
1878 Glover pl. XI fig. 7.
1880 Zesch-Reinecke p. VII.
1884 Harrington p. 71.
1886 Horn p. 81 pl. II fig. 45-50.
1886 *calcarata* Mels. = *floricola* Gory, Horn p. 119.
1889 Blanchard p. 31.
1889 Chittenden p. 217.
1892 *femorata* L.-G. = *floricola* Gory, Kerremans p. 213.
1894 Hamilton p. 252.
1895 Hamilton p. 364.
1895 Evans p. 146.
1897 Castle p. 8.
1902 Ulke p. 21, 47.
1903 Kerremans p. 187.
1903 Felt p. 167.
1904 Felt p. 419.
1906 Felt p. 649, 657, 658.
1909 Blatchley p. 790.
1909 Smith p. 293.
1912 Grossbeck p. 135.

NOTE—The distribution and hosts of *lesueuri* are difficult to give since the variety is seldom differentiated in economic literature.

1912 Davis-Leng. p. 120.
1913 Manee p. 170.
1915 Johnson p. 312.
1917 Chagnon p. 218.
1919 Nicolay p. 19.
1920 Britton p. 244.
1920 Frost p. 28.
1922 Knull p. 83.

Type locality: Florida.
Distribution: Canada to Florida, west to Indiana.
Massachusetts: Tyngsboro (10).
New York: West Point VII (4); Yaphank VII (19); Bellport VI-11 (19).
Pennsylvania: Common (Knull).
New Jersey: Malaga V-17 (8).
Maryland: Washington, D. C. (8).
Virginia: Va. Beach VII-11 (10).
North Carolina: So. Pines IV (10).
Georgia: Clayton 3700 ft. (4).
Alabama: Mobile V (c).
Florida: Cleveland, Jackson (4); Archer III (10); Tampa IV-24 (10).
Michigan: Marquette VII-3 (10).
Host: White pine *(Pinus strobus)*, loblolly pine *(P. teada)*, pitch pine *(P. rigida)*, long leaf pine *(P. palustris)*.

FRATERNA Mannerheim, See TRANQUEBARICA Gemlin

260. GEMMATA Leconte (9418)

1858 Leconte p. 67.
1859 Leconte p. 237.
1886 Horn p. 105 pl. 6 figs. 178-182.
1887 Waterhouse p. 36.
1892 Kerremans p. 214.
1905 Schaeffer p. 130.
1918 Van Dyke p. 58.
1918 Burke p. 211.

Type locality: Mexico (Sonora).
Distribution: Arizona, New Mexico and Mexico (Sonora).
Arizona: Douglas (16); Pinal Mts. (9); Sabino Basin VI-28 (10); San Bernardino Ranch (16); Yuma (10).
Host: Mesquite *(Prosopis juliflora)*.
(A specimen in the National Museum bears the following label: "Reared from *Quercus alba*").

GERMARI Laporte-Gory, See SEXSIGNATA Say

NOTE—According to Horn (1886 p. 118) *germari* L.-G. is a synonym of *solieri* and does not belong in our list.

261. HARRISII Hentz. (9479)

1827 Hentz p. 373 pl. XIII fig. 1.
1829 Harris p. 8.
1837 *chlorocephala* Dejean p. 90.
1841 *chlorocephala* Gory IV p. 161 pl. 27 fig. 156.
1852 Harris p. 50.
1857 Fitch p. 703.
1857 *chlorocephala* Gory = *harrisii* Hentz, Leconte p. 9.
1859 Leconte p. 239.
1869 Glover p. 91.
1869 Harris p. 359.
1871 *chlorocephala* Gory, Saunders p. 96.
1873 Crotch p. 90.
1878 Hubbard-Schwarz p. 636.
1878 Glover pl. XX fig. 35.
1878 Provancher p. 7.
1879 Harrington p. 119.
1881 Harrington p. 33.
1883 Harrington p. 79.
1884 Harrington p. 35.
1884 Saunders p. 55.
1886 Horn p. 86 pl. 3 figs. 66-70.
1887 *chlorocephala* Schwarz p. 39.
1888 *chlorocephala* Schwarz p. 93.
1889 Blanchard p. 32.
1890 Packard p. 62, 69, 679, 680.
1892 Kerremans p. 214.
1901 Scott p. 28.
1902 Ulke p. 21, 47.
1903 Kerremans p. 187.
1906 Felt p. 467, 751.
1909 Easton p. 50.
1911 Morris p. 45.
1912 Frost p. 306.
1913 Manee p. 170.
1915 Frost p. 142.
1917 Nicolay p. 93.
1917 Chagnon p. 218.
1917 Gibson p. 149.
1920 Britton p. 244.
1920 Knull p. 7.
1920 Frost p. 26, 29.
1921 Morris p. 50.
1922 Knull p. 83.

Type locality: Massachusetts.
Distribution: Ottawa, along the Atlantic States to Florida.
Ontario: Peterborough District (Morris).
Maine: Cumberland Co. VI-28 (c); Monmouth VI-26 (c); Isle of Pines (10).
Massachusetts: Concord (8); Brookline (4); Monterey VII-8 (14).
District of Columbia: Washington V-15 (10).
Pennsylvania: Hummelstown VI-24 (9); Charter Oak VI-VII (Knull); Rockville VII.
Virginia: Falls Church (9).
Georgia: Stone Mt. VII-11 (4); Clayton 3000 ft. (11).
Alabama: Auburn (4).
Host: White pine *(Pinus strobus)*, pitch pine *(P. rigida)*, scrub pine *(P. virginiana)*. Also recorded from black alder *(Alnus nigra)*.

262. HORNI Kerrmans (9455)

1903 Kerremans p. 186.

Type locality: Etato-Unis d'Amerique.
Distribution: Etato-Unis d'Amerique.
Host: Unknown.

263. HUMILIS Horn (9477)

1886 Horn p. 102 pl. 6 figs. 161-172.
1892 Kerremans p. 214.
1903 Kerremans p. 190.

Type locality: Arizona.
Distribution: Arizona.
Arizona: Holotype "Ariz." (17); Cataline Springs VI-21 (10).
Host: Unknown.

HYBERNATA Fab., See CHRYSOELA Illiger

264. IGNICOLLIS Horn (9431)

1885 Horn p. 145.
1886 Horn p. 82 pl. 3 figs. 51-55.
1886 Henshaw p. 93.
1892 Kerremans p. 214.
1899 Wickham pt. 7 p. 236.
1903 Kerremanss p. 186.
1907 Fall-Cockerell p. 179.
1918 Burke p. 210.

Type locality: Colorado?
Distribution: California, Colorado, New Mexico, Arizona, Utah, Texas and Nevada.
Utah: Beaver Cr. Can. VI-20 (1); Beaver Co. (1).
California:
Colorado: Ft. Garland (10); Salida (9).
New Mexico: Meek (10); Colombia Mts. (10); Alamogordo V-8 (17); Silver City VII-7 (11).
Nevada: Esmaraldo Co. VI-27 (c).
Texas: Montel (10).
Arizona: Pinal Mts. (4); Prescott VI-VII (13).
Host: Mountain juniper *(Juniperus scopulorum)*, one-seed juniper *(J. monosperma)*, Alligator juniper *(J. pachyphlaea)*, Port Orford cedar *(Chamaecyparis lawsoniana)*, and cypress *(Cupressus sp.)*.
Season: July.

IGNIPES Laporte-Gory, See SEXSIGNATA Say

IMPRESSA Fab., See TRANQUEBARICA Gemlin

INSCULPTA Herbst., See FEMORATA Fab.

265. JUNIPERINUS Chamberlin

1924 Chamberlin p. 191.

Type locality: Stein Mountains, Harney Co., Oregon.
Host: *Juniperous scopulorum.*

266. LARICIS Van Dyke (9443)

1916 Van Dyke p. 409.
1917 Chamberlin p. 138.
1918 Van Dyke p. 58.
1924 Chamberlin p. 191.

Type locality: Sumpter, Oregon.
Distribution: Eastern Oregon, California, Sierras as far south as Yosemite, Idaho and Utah.
Oregon:: Sumpter, Grant Co. VI, VII (c).
California: Toulomne Meddow (15); Lake Tahoe (15); Angora Lake (15).
Idaho: Cascade VI-26 (c).
Utah: Parawan Mts. (Knaus).
Host: Larch *(Larix occidentalis)*, lodgepole pine *(Pinus contorta)*, spruce (Knaus).

267. LATA Kerremans (9463)

1899 Kerremans p. 336.
Type locality: Florida.

268. LATERALIS Waterhouse (9415)

1887 Waterhouse p. 47, 185 pl. 3 fig. 20.
1892 Kerremans p. 215.
1903 Kerremans p. 185.

Type locality: Texas.
Distribution: Texas.
Host: Unknown.

269. LECONTEI Leng. (9408)

1837 *ultramarina* Leporte-Gory p. 13 (name preoccupied).
1843 *ultramarina* L.-G., Strum p. 61.
1857 Leconte p. 8.
1859 *azurea* Leconte p. 239.
1880 Zesch-Reinecke p. VII.
1884 Lugger p. 203.
1886 Horn p. 112.
1886 Leng. p. 231.
1889 Chittenden p. 220.
1892 *azurea* Lec. = *scitula* Gory, Kerremans p. 207.
1893 Hopkins p. 181.
1894 Stormberg p. 37.
1896 Bowditch p. 387.
1899 Hopkins p. 437.
1901 Scott p. 28.
1902 Ulke p. 21, 47.
1906 Felt p. 429, 463.
1909 Blatchley p. 791.
1909 Smith p. 293.
1912 Frost p. 306.
1915 Stoner p. 226.
1915 Kwiat p. 237.
1919 Nicolay p. 19.
1920 Britton p. 244.
1920 Knull p. 6.
1920 Frost p. 28.
1921 *Lecontei* n.n. for *azurea* Lec., Leng. p. 182.
1922 Knull p. 83.
1924 Felt p. 304.

Type locality:

Distribution: Maine to Florida, west to Michigan, Indiana, Iowa and Texas.
Maine:: Wales VI-13 (14).
Massachusetts: Framingham IV-3, V-30 (14).
New York: Stanton Island (4); N. Y. City (4); Palisads (4); Hastings VI-15 (4); Jamaica, L. I. (19); Acqueduct VII (19); Montauk VI-1, VII-2 (19); Rockland Co. (c).
New Jersey: Buena VI-I0 (7); Lakehurst VII-5 (4).
Pennsylvania: Harrisburg, Spring Mill, Hummelstown, June-July.
Maryland: Blandsburg VI-8 (10).
Washington, D. C.: (10).
West Virginia: Ramney V-3, and Kanawha V-15 (Hopkins).
Ohio: Cincinnati VI-1, VII-4 (11).
Michigan: Detroit VI (10).
Host: White birch *(Betula alba)*, alder *(Alnus rugosa)*, Scarlet oak *(Quercus coccinea)*, swamp oak *(Q. bicolor)*, on *(Q. alba)* (Frost), Wistaria *(Wistaria sp.)*, beech *(Fagus sp.)*, willow *(Salix sp.)*, haw *(Crataegus sp.)*, linden *(Tilia americana)* sumach*(Rhus toxicodendron)*, Hickory *(Hickoria sp.)*. Taken on sumach *(R. glabra)*, and pine *(Pinus sp.)*; (peach in Georgia—Scott.

LESUERI L.-G., a Variety of FEMORATA Oliver

270. LIBONOTI Horn (9422)

1886 Horn p. 108 pl. 6 figs. 193-197.
1892 Kerremans p. 216.
1903 Kerremans p. 191.

Type locality: Arizona.
Distribution: Arizona and New Mexico.
Arizona: Huachuca Mts. V-5 (c), VIII (c); Palmerlee (9); Lectotype "Ariz." (17).
New Mexico: Gallinas Can. (4); Carr Canyon (17).

271. LILACEOUS Chamberlin

1924 Chamberlin p. 189.
Type locality:: Klamath Falls, Oregon.
Host: Western juniper *(Juniperous occidentalis)*.

LINEATIPENNIS Van Dyke, a Variety of MALI Horn

272. LIXA Horn (9472)

1886 Horn p. 101 pl. 5 figs. 159-163.
1892 Kerremans p. 216.
1894 Horn p. 328.
1900 Griffith p. 568.
1903 Kerremans p. 187.
1907 Fall p. 339.

Type locality: Texas.

Distribution: Lower California, Nevada, Arizona and Texas.
Arizona: Huachuca Mts. VII, VIII (1); Nogales VIII-18, IX-2 (c); (10); Williams VI-1 (10); Lectotype "Tex." (17); paratype "Tex." (17).
Nevada: (17).
Lower California: Calamount.
Host: Unknown.

273. LUCANA Horn (9406)

1894 Horn p. 328, 367.
1903 Kerremans p. 191.
1904 Schaeffer p. 208.

Type locality: Sierra El Chinche, Bajo, California.
Distribution: Lower California, Arizona and California.
Arizona: Huachuca Mts. VII, VII (1); Nogales VIII-18, IX-2 (c); Catalina Springs V-5 (10); Cactus Plain, Yuma Co. IX (13).
California:: Pasadena VII-14 (7); Palm Springs; Tulare (16).
Lower California: San Jose del Cabo (17); Santa Rosa (1).
Host: Calif. live oak *(Quercus agrifolia)*.

274. LUDIFICATA Horn (9462)

1886 Horn p. 88 pl. 3 figs. 80-84.
1892 Kerremans p. 216.
1901 Fall p. 117.
1902 Skinner p. 40.
1903 Kerremans p. 191.
1907 Fall-Cockerell p. 179.
1907 Fletcher p. 100.
1913 Woodworth p. 196.
1917 Burke p. 210.

Type locality: Colorado.
Distribution: California, Colorado, Arizona, South Dakota, New Mexico, Utah and Kansas.
California: Lectotype (17); paratype (17); Weed VII, VII (c).
Colorado: Type (17); Waldo Can. VII (10); Larkspur (10); Manitou VIII-31 (10); Florescent (10); Buena Vista VII-4 (10).
Arizona: Flagstaff (c); Prescott VI-9 (c); Williams VI-8 (c); Grand Canyon (9); Phoenix (4); Senator (4); Huachuca Mts. VII (1); St. Catalina Mts. (10).
New Mexico: Beulah VIII-17 (8); Silver City VII-12 (11); Santa Fe (13).
South Dakota: Elmore (10).
Utah: Pangeutch (10).
Kansas: (10).
Host: Yellow pine *(Pinus ponderosa)*, limber pine *(P. flexilis)*, pinon *(P. edulis)*, Douglas fir *(Pseudotsuga taxifolia)*, and Gambel oak *(Quercus gamblii)*

275. MALI Horn (9439)

1886 Horn p. 97 pl. 5 figs. 135-139.
1891 Ricksecker p. 412.
1891 Riley-Howard p. 412.
1891 Allen p. 50.
1892 Kerremans p. 216.
1893 Allen p. 70.
1896 Cook p. 66.
1896 Cook p. 362.
1901 Fall p. 117.
1902 Chittenden p. 726.
1902 Cockerell p. 108.
1902 Van Dyke p. 173.
1903 Wickham p. 68.
1903 Kerremans p. 186.
1911 Gibson p. 12.
1912 Gibson p. 100.
1913 Woodworth p. 196.
1916 Van Dyke p. 411.
1917 Chamberlin p. 137.
1917 Burke p. 328.
1918 Van Dyke p. 58.
1919 Burke p. 326-330.
1920 Chamberlin p. 106-108, p. 244.
1922 Quaintance & Seigler p. 73.
1923 Horne et al p. 5.
1923 Lovett & Barss p. 6.
1923 Van Dyke p. 40.
1924 Chamberlin p. 192.

Type locality: Owens Valley, California.

Distribution: Washington, Oregon, California, Nevada, Utah, Arizona, Colorado, New Mexico, and Manitoba, Canada.

Oregon: Dundee (c); Corvallis IV-2, VIII-15; Portland (c); Roseburg VI-12 (o); The Dalles VII (o); Cove V-25 (c); Steinman VI-22 (25); Klamath Falls June (c); Warner Canyon June (c); Sutherlin V-6 (c).

California: Common throughout the state, Siskiyou to Los Angeles County, Pasadena, Yosemite, Banning, Riverside, Santa Monica, Pomona, Tahoe, Weed, and Los Gatos.

Nevada: Paratype "Nev." (17).

Utah: Paratype Utah (17).

Arizona: Williams VII-20 (10); Prescott VI-19 (10); Senator (4); Phoenix (4).

Texas: Davis Mts. (8).

Minnesota: Duluth (7)?

Onah, Manitoba VI-13 on *P. virginiana* (Wallis).

Host:: Box elder *(Acer negundo)*, silver maple *(A. saccharinum)*, soft maple *(A. rubrum)*, broad-leaf maple *(A. macrophylum)*, sycamore maple *(A. pseudo-platanus)*, smooth leaf willow *(Salix laevigata)*, weeping willow *(S. babylonica)*, arroyo willow *(S. lasiolepis)*, American elm *(Ulmus americana)*, camperdown elm *(U. scabra-pendula)*, Huntingdon elm *(U. scabra-huntingdoni)*, mesquite *(Prosopis juliflora)*, *(Arctostaphylos tomentosa)*, apple *(Pyrus malus)*, plum *(Prunus domestica)*, peach *(P. persica)*, wild plum *(P. subcordata)*, cherry *(P. avium)*, Japanese cherry *(P. pendula)*, holly-leaf cherry *(P. ilicifolia)*, apricot *(P. americana)*, coffee-berry *(Rramus californica)*, evergreen buckthorn *(R. crocea)*, California black

oak *(Quercus californica)*, California live oak *(Q. agrifolia)*, European sycamore *(Platanus orientalis)*, California sycamore *(P. racemosa)*, mountain mahogany *(C. parvifolius)*, Christmas berry *(Heteromelas arbutifolia)*, loquat *(Eriobotraya japonica)*, oso berry *(Osmaronia cerasiformis)*, white alder *(Alnus rhombifolia)*, lombardy poplar *(Populus nigro-italica)*, madronne *(Arbutus menziesii)*, blue gum *(Eucalyptus globulus)*, wild lilac *(Ceanothus sorediatus)*, European horse chestnut *(Aesculus hippocastanam)*, pea chaparral *(Pickeringia montana)*, cultivated rose *(Rosa sp.)*, European mountain ash *(Sorbus aucuparis)*, currant *(Ribes rubrum)*, copper beech *(Fagus sylvatica purpurea)*.

Season: April to August.

275a. Variety LINEATIPENNIS Van Dyke (9439a)

1916 Van Dyke p. 411.
1919 Burke p. 328.
1923 Van Dyke p. 40.

Type locality: Santa Monica Mts., California.
Distribution: California and Arizona.
California: Tulare (c).
Host: Chaparral *(Baccharis pilularis)* and *(B. sergiloides)*.
Season: July.

MELICULA Dejean, See CHRYSOELA Illiger

276. MERKELII Horn (9419)

1886 Horn p. 106 pl. 6 figs. 183-187.
1892 Kerremans p. 216.
1901 Fall p. 117.
1902 Van Dyke p. 173.
1903 Kerremans p. 191.
1905 Schaeffer p. 130.
1913 Woodworth p. 196.
1918 Van Dyke p. 58.
1918 Burke p. 211.

Type locality:: Texas.
Distribution: Arizona, Texas and California.
Arizona: Sabino Canyon II (10); paratype (17).
Texas:: Brownsville (16); Lectotype (17); paratype (17).
California: Banning V, VI (c); San Bernardino (4).
Host: Mesquite *(Prosopis juliflora)*, Cat's Claw *(Acacia greggii)*.

MEXICANA Dejean, See AEREA Chevrolat

277. MICROMORPHA Fall (9441)

1907 Fall p. 237.

Type locality: Hot Springs, Arizona.
Distribution:: Southern Arizona. Oricle VII-5 (10).
Host: Unknown.

MISELLA Leconte, See FEMORATA Fabricii

278. MONTICOLA Fall (9434)

1910 Fall p. 51.
1913 Woodworth p. 196.
1917 Chamberlin p. 136.
1918 Van Dyke p. 57.
1924 Chamberlin p. 192.

Type locality: San Bernardino Mountains, California.
Distribution: Oregon and California.
Oregon: Warner Mountains (c).
California: Fallen Leaf Lake VIII-1 (10); Green Valley VIII-6, 8000 ft. (11); Tallac VII (13); Sierra Madra VI (13); Weed VIII-11 (c); Humbolt Co. (c).
Host: Yellow pine *(Pinus ponderosa)*, and Jeffrey pine *(P. jeffreyi)*.

279. MULTISTIGMOSA Mannerheim (9425)

1837 Mannerheim p. 82.
1887 Waterhouse p. 48.
1892 *atabalipa* L.-G. = *multistigmosa* Man., Kerr. p. 217.
1892 *oblonga* Dej. = *multistigmosa* Mann., Keremans p. 217.
1892 *basalis* Lec. = *multistigmosa* Mann., Kerremans p. 217.
1903 Kerremans p. 186.

Type locality: Texas?, Mexico?.

NIGRAFASCIATA Leconte, See ATROFASCIATA Leconte

NIGRITULE Laporte-Gory, See FEMORATA Fabricii

280. NIXA Horn (9451)

1886 Horn p. 98 pl. 5 figs. 145-149.
1892 Kerremans p. 217.
1901 Fall p. 117.
1903 Kerremans p. 191.
1908 Wright-Coolidge p. 67.
1917 Chamberlin p. 138.
1917 Burke p. 328.
1922 Wallace p. 3.
1924 Van Dyke p. 18.
1924 Chamberlin p. 192.

Type locality: Western Nevada.
Distribution: Oregon, California and Nevada.
Nevada: Type (17); Lectotype (male) Nev. (17).
California: Miami (13); Azusa (9); Yosemite V-22 (9), VI-18, 4000 ft. (11); Carrville VII-5 (9); Mesquite (10); Placerville (10); Calaveras (10); Weed VII (c).
Oregon: Josephine VI-11 (c).
Host: Incense cedar *(Libocedrus decurrens)*, Monterey sypress *(Cypressus macrocarpa)*, and Western juniper *(Juniperous occidentalis)*.
Season: March to August.

OBLONGA Dejean, See MULTISTIGMOSA Mannreheim

OBSCURA Leconte, See FEMORATA Fabricii

281. OCTOCOLA Leconte (9426)

1858 Leconte p. 67.
1859 Leconte p. 230.
1886 Horn p. 73 pl. 2 figs. 6-10.
1887 Waterhouse p. 46.
1890 Packard p. 669.
1892 Kerremans p. 217.
1898 Wickham p. 40, 305.
1900 Griffith p. 568.
1901 Fall p. 117.
1903 Kerremans p. 186.
1904 *octo-punctata* Kunze p. 242.
1904 Wickham p. 307.
1907 Fall-Cockerell p. 154.
1913 Woodworth p. 196.
1918 Van Dyke p. 58.
1918 Burke p. 210.

Type locality: Texas.
Distribution: California, Texas, Arizona and Mexico.
California: Indio, Banning, White Water and Palm Springs VI-16 (c).
Texas: Fedor, Lee Co. (3); ElPaso (4); Carmal Co. (4); Macdona VII-28 (8).
Arizona: Yuma (4); Florence VI-28 (8); Bill Williams Can. (13); Tucson VIII-16 (13); Oracle (4); Palmerlee VIII-23 (9); Redington (10); Brush Carrol (10); Sabino Can. (10); Monmoth VII-1 (10); Sta. Catalina Mts. VI-28 (10); Pima Co. VIII-12 (11); Gila; Prescott (c).
Lower California: Santa Rosa (1).
Mexico: Sonora, Alamos, San Luis Potosi and Tamalipas.
Host: Mesquite *(Prosopis juliflora)*, Palo verde *(Cercidium torreyanum)*.

OCTO-PUNCTATA (8 Punctata) Kunze, See OCTOCOLA Leconte

282. ORONO Frost

1920 Frost p. 232.
1921 Nicolay p. 175.
1923 Frost p. 281.

Type locality: Orono, Maine.
Season: July.

283. PENINSULARIS Schaeffer (9465)

1904 Schaeffer p. 207.

Type locality: San Felipe, Lower California.
Distribution: Lower California.
Host: Unknown.

284. PIUTA Wickham (9440)

1903 Wickham p. 67.
1907 Fall p. 338.

Type locality: Independence, Owens Valley, California.
Distribution: California and Arizona.
Arizona: Williams VII-18 (c).
Host: Beaten from desert shrubs.
Season: July.

PLANATA Laporte-Gory, See DENTIPES Germar.

PLICATA Dej., See DENTIPES Germar.

POSTICALIS Laporte Gory, See DENTIPES Germar.

285. PRASINA Horn (9412)

1886 Horn p. 118 pl. 7 figs. 244-247.
1892 Kerremans p. 218.
1894 Horn p. 368.
1903 Kerremans p. 192.
1904 Schaeffer p. 206.
1913 Woodworth p. 196.
1917 Chamberlin p. 139.

Type locality: Northern California.
Distribution: California.
California: Holotype "Cal." (17); Alaneha (11); Sonoma Co. (15).
Host: Unknown.

PROXIMA Kirby, See SCABRIPENNIS Laporte-Gory

236. PSEUDOTSUGAE Van Dyke (9442)

1916 Van Dyke p. 407.
1917 Chamberlin p. 138.
1924 Chamberlin p. 191.

Type locality: Carrville, Trinity Co., California.
Distribution: Oregon and California.
California: Fallen Leaf Lake VI-2 (10); Weed VIII-11 (c); Carrville VI-30 (10).
Hosts: Douglas fir *(Pseudotsugae taxifolia)*, white fir *(Abies concolor)*, grand fir *(A. grandis)*, yellow pine *(Pinus ponderosa)*, and Jeffrey pine *(P. jeffreyi)*.

287. PUBESCENS Fall (9452)

1907 Fall p. 238.
1913 Woodworth p. 196.
1917 Chamberlin p. 139.
1924 Chamberlin p. 192.

Type locality: Southern California, "Mt. Wilson."
Distribution: California and Oregon.
California: Sierra Madra (13); Lake Tahoe (15); Shasta Co. (15); 300 to 6000 ft altitude.
Oregon: Mt. Jefferson VII-20, 7500 ft. (c).
Host: Scrub oak *(Quercus dumosa)*, yellow pine *(Pinus ponderosa)?*, and Jeffrey pine *(P. jeffreyi)?*.

PURPURATA Bland, See ANEOLA Leconte

288. PURPUREOPLAGIATA Schaeffer (9474)

1904 Schaeffer p. 206.
1905 Schaeffer p. 129.

Type locality: Florence, Arizona.
Distribution: Southern Arizona and Lower California.
Lower California: El Taste (1); San Felipe (1).
Host: Unknown.

289. PURPUREOVITTATA Horn (9473)

1886 Horn p. 76 pl. 2 figs. 25-29.
1892 Kerremans p. 218.
1894 Horn p. 328.
1903 Kerremans p. 187.
1904 Schaeffer p. 206.
1909 Blatchley p. 789.

Type locality: Texas.
Distribution Indiana, Illinois, Arizona, Texas, Kansas, Oklahoma and Lower California.
Texas: Lectotype No. 3430 Texas, paratype S. W. Tex. (17); Dallas (10); Carmal Co. (4); Davis Mts. VII-11 (8); New Brunsfels (10); San Antonio VI-22 (10).
Arizona: Phoenix (4).
Oklahoma: Kingfisher VII-20 (9).
Kansas: Clark Co. VI-1 (4); Belvedere VII-1 (c); paratype Kansas (17).
Lower California: San Jose del Cabo, Santa Rosa (4); El Taste (4).
Host: Bred from Elm Twigs.

PURPURIFRONS Motschulsky (9456), See CONTIGUA Leconte

290. PUSILLA Laporte-Gory (9448)

1841 Laporte-Gory II p. 53 pl. 10 fig. 72.
1841 *biguttata* Laporte-Gory p. 50 pl 10 fig. 12.
1844 *strangulata* Melsheimer p. 147.
1859 Leconte p. 236.
1884 Harrington p. 71.
1886 Horn p. 97, 120, pl. 5 figs. 140-144.
1889 Blanchard p. 31.
1892 Kerremans p. 218.
1893 Hopkins p. 181.
1899 Hopkins p. 437.
1902 Fletcher p. 107.
1902 Ulke p. 21, 47.
1903 Kerremans p. 186.
1903 *biguttata* L.-G., Kerremans p. 186.
1903 *strangulata* Mann., Kerremans p. 186.
1903 Felt p. 172.
1904 Felt p. 419.
1906 Felt p. 649, 658.
1909 Blatchley p. 791.
1909 Smith p. 293.
1912 Beal p. 47.
1913 Manee p. 170.
1919 Nicolay p. 19.
1920 Britton p. 244.
1920 Knull p. 6.
1922 Knull p. 83.
1924 Mundinger p. 315.
1924 Felt p. 303.

Type locality: North America.
Distribution: Ontario to Carolina, west to Wisconsin and Ohio.
Ontario: Calander (8).
Massachusetts:: Dartmouth VI-7, VIII-8 (c); Lowell (13); Tyngsboro (13).
Maryland: Lloyds VII-10 (10).
New Jersey: Jamesburg VII-24 (4); Spotwood (4); DeCosta (8); Malaga (8).
New York: White Face Mt. (4); West Point VI-18 (c).
Pennsylvania: Pittsburg (9); common in Pennsylvania (Knull).
Michigan:
North Carolina: Tyron VII (10); Retreat V-15 (10).
Alabama: Mobile VII-3 (9).
West Virginia: White Sulphur (4).
Virginia: Penington Gap VII-4 (10).
Host: White spruce *(Picea canadensis)*, white pine *(Pinus strobus)*, pitch pine *(P. rigida)*, short-leaf pine *(P. echinata)*, Fraser fir *(Abies fraseri)*, Hemlock *(Tsuga canadensis)*.

QUADRI-IMPRESSA Laporte-Gory, See FEMORATA Fab.

291. QUADRILINEATA Leconte (9437)

1859 Leconte p. 233.
1886 Horn p. 94, pl. 4 figs. 120-124.
1892 Kerremans p. 218.
1898 Cockerell p. 152.
1903 Kerremanns p. 192.

Type locality: Santa Fe, New Mexico.
Distribution: New Mexico, Arizona and Nevada.
New Mexico: Jamez Mts. VIII-4 (16); Gallinas Can. (25); Water Can. (25).
Arizona: Carr's Peak, Huachuca Mts. VII-8 (16).
Nevada: Goldfield, Esmeraldo Co. 7000 ft. VII-27 (c).

QUADRI-MACULATA (4-Maculata) Mels., See SEXSIGNATA Say

ROTUNDICOLLIS L. & G., See DENTIPES Ger.

RUFICORNIS Strum, See DENTIPES Germar

RUGOSA Mannerheim, See TRANQUEBARICA Gmelin

RUGOSICEPS Melsheimer, See FEMORATA Fabricii

292. SCABRIPENNIS Laporte-Gory (9463)

1841 Laporte-Gory II p. 53 pl. 9 fig. 71.
1837 *proxima* Kirby p. 157.
1841 *scabra* Gory IV p. 182 pl. 31 fig. 178.
1850 Leconte p. 227.
1857 Leconte p. 9.
1858 Leconte p. 68.
1859 Leconte p. 235.
1871 *proxima* Bethune p. 230.
1872 *proxima* Bethune p. 33.
1874 Austin p. 269.
1878 Hubbard-Schwarz p. 636.
1886 *proxima* Kirby=*scabripennis* L.-G., Horn p. 120.
1886 Horn p. 89 pl. 3 figs. 85-89.
1886 *scabra* Gory=*scabripennis* L.-G., Horn p. 120.
1889 Chittenden p. 220.
1889 Blanchard p. 31.
1892 Kerremans p. 219.
1894 Slosson p. 2.
1895 Evans p. 146.
1896 Bowditch p. 6.
1901 *proxima* Kby., Fall p. 117.
1903 Kerremans p. 187.
1903 Felt p. 172.
1903 Felt p. 91.
1903 *scabra* Kerremans p. 187.
1903 *proxima* Kerremans p. 187.
1904 Fletcher p. 97.
1905 Felt p. 171, 172.
1906 Felt p. 753.
1912 Frost p. 306.
1913 Woodworth p. 196.
1915 Frost p. 142.
1917 Nicolay p. 93.
1917 Chagnon p. 218.
1917 Gibson p. 149.
1920 Britton p. 244.
1920 Knull p. 6.
1922 Knull p. 83.

Type locality: North America.
Distribution: Canada, New England States, west to Lake Superior.
Ontario: Calander (8); Quebec; Alberta.
Maine: Monument (9); Paris VII-17 (c); Cumberland Co. (4).
New Hampshihre: Concord (8); White Mts. (10); Mt. Washington VII-4 (4).
Massachusetts: Framingham (14).
New York: White Face Mt. VII-1 (14); Big Moose VIII-12 (Felt).
Pennsylvania: (17). Rockville, Endeavor, Charter Oak (Knull).
Minnesota: Duluth (10).
California: *(proxima)* Pasadena, Santa Monica (Fall).
Host: White pine *(Pinus strobus)*, spruce *(Picea sp.)*, Hemlock *(Tsuga canadensis)*.
Season: June and July.

SCABRA Gory, See SCABRIPENNIS Laporte-Gory

293. SCITULA Gory (9407)

1837 Dejean p. 90 (ne description).
1841 Gory IV p. 160 pl. 27 fig. 155.
1841 *chlorocephala* Gory p. 170.
1841 *ultramarina* Laporte-Gory II p. 13 pl. 3 fig. 19.
1857 *ultramarina* L.-G. n.n. *azurea* Leconte p. 8.

1859 *concinnula* Lec. n.n. for *azurea* Leconte p. 238.
1878 Hubbard-Schwarz p. 656.
1886 *ultramarina* L.-G. = *scitula* Gory, Horn p. 115.
1886 Horn p. 112 pl. 7 figs. 217, 221.
1886 *concinnula* Lec.=*scitula* Gory, Horn p. 115.
1891 Hamilton p. 130.
1891 *chlorocephala* Gory = *scitula* Gory, Hamilton p. 130.
1892 Kerremans p. 219.
1902 Ulke p. 21, 47.
1903 Kerremans p. 185.
1903 *ultramarina L.-G.*, Kerremans p. 185.
1903 *concinnula* Lec., Kerremans p. 185.
1906 Felt p. 701.
1908 Heyne-Taschenberg p. 139.
1909 Smith p. 293.
1922 Knull p. 83.

Type locality: Pennsylvania?.
Distribution: Connecticut to Virginia, west to Michigan.
Connecticut: Stamford VI-21 (c).
Pennsylvania: Philadelphia (c); Easton (9); Harrisburg (Knull).
New Jersey: Jamesburg VII-4 (c); DeCosta VII (8).
Virginia: Ft. Monroe (10).
Michigan: Detroit VII (10).
Host: Pin oak *(Quercus minor)*.

SEMISCULPTA Leconte, See CONTIGUA Leconte

SERRIPENNIS Laporte-Gory, See TRANQUIBARICA Gmelin

294. SERRIPES Schaeffer (9420)

1905 Schaeffer p. 130.
1909 Schaeffer p. 376.

Type locality: Beaver Canyon, Utah.
Distribution: Arizona and Utah.
Arizona: Williams VII-1, VII-29 (10); Oak Creek VIII (16); Cheyenne Can. VIII (10).
Most: Gambel oak *(Quercus gambellii)*.
Season:: July.

295. SEXFASCIATA Schaeffer (9401)

1918 Schaeffer p. 212-213.
1925 Fisher p. 93, 127-128.

Type locality: Key West, Florida.
Distribution: Florida Keys. Cuba (10).
Host: Unknown.

SEXGUUTTATA Say, See SEXSIGNATA Say

296. SEXSIGNATA Say (9405)

1823 *B. sexguttata* (preoccupied) Say p. 161.
1836 *Buprestis* Say p. 158.
1841 *germari* Laporte-Gory II p. 50 pl. 9 fig. 67.
1841 *ignipes* Laporte-Gory II p. 50 pl. 9 fig. 68.
1853 *4-maculata* Melsheimer p. 63.
1857 Leconte p. 8.
1859 Leconte p. 237.
1873 *analis* Lec.=*sexsignata* Say, Crotch p. 90.
1873 *ignipes* Gory=*sexsignata* Say, Leconte p. 332.
1878 Glover pl. XI fig. 1.
1878 Hubbard-Schwarz p. 656.
1880 Zesch-Reinecke p. VII.
1883 Leconte p. 591.
1884 Harrington p. 71.
1886 Horn p. 112 pl. 7 figs. 212-216.
1889 Chittenden p. 220.
1889 Blanchard p. 31.
1890 Packard p. 485, 520.
1892 Kerremans p. 220.
1895 Hamilton p. 364.
1897 Chittenden p. 71.
1897 Harrington p. 70.
1899 *6-guttata* Say = *sexsignata* Say, Harris p. 411.
1901 Scott p. 28.
1902 Fiske p. 68.
1902 Ulke p. 21, 47.
1903 Kerremans p. 185.
1903 *sexguttata* Say, Kerremans p. 185.
1903 *germari* L. et G., Kerremans p. 185.
1903 *ignipes* L. et G., Kerremans p. 185.
1905 Schaeffer p. 148.
1906 Felt p. 409, 721.
1909 Blatchley p. 791.
1909 Smith p. 293.
1909 Wickham p. 23.
1912 Frost p. 306.
1915 Frost p. 269.
1917 Chagnon p. 218.
1918 Blackman p. 20, 23, 36, 82 pl. 8 fig. 26.
1919 Nicolay p. 19.
1920 Britton p. 244.
1920 Knull p. 6.
1922 Knull p. 82.
1924 Rhoads p. 64.
1924 Blackman & Stage pp. 14, 16, 19, 21-28.
1924 Mundinger p. 315.

Type locality: "United States." Exact locality not given.
Distribution Maine to Georgia, west to Michigan and Nebraska.
Massachusetts: Melrose (c); Sherborn VI-27 (c).
New York: Acqueduct V-20 (19); Huntington, L. I. VII-17 (19); Flatbush, L. I. VII-21 (19).
Connecticut: New Haven V-12 (14); Lynne (10).
Pennsylvania: Philadelphia VII-6 (8); Charlerot (9); Shiremanstown (10); Hecton Mills VI (10); Delaware Co. VII-8 (8).
Washington, D. C.: VI-27 (10).
North Carolina: Black Mts. VI-12 (9); Tyron (10); Broadman XI-5 (10).
West Virginia:: Kanawah (10).
Virginia: Fall's Church (10); Pennington Gap VII-4 (10); Nelson Co. VI-22 (c).

Ohio: Cincinnati VI-3 (11).
Iowa: Ames (W); Iowa City (W).
Michigan Pt. Heron VI-5 (10).
Host: Bred from hickory *(Hickoria sp.)*, beech *(Fegas sp.)*, bald cypress *(Taxodium disticum)*, white oak *(Quercus alba)*, *(Q. bicolor)*, yellow birch *(Betula lutea)*, American larch *(Larix americana)*, red maple *(Acer rubrum)*, Butternut *(Juglans cinerea)*, black walnut *(J. nigra)*, Black ash *(Frasinus nigra)*, chestnut *(Castanea dentata)*, Hemlock *(Tsuga canadensis)*. Reported from pitch pine *(Pinus rigida)*, white ash *(Fraxinus americana)*.

297. SMARAGDULA Fall (9414)

1907 Fall p. 239.

Type locality: Oak Creek Canyon, Arizona.
Distributon: Reported only from the type locality.
Host: Unknown.

SOROR Leconte, See FEMORATA Fab.

298. SOCIALIS Waterhouse

1887 Waterhouse p. 39 pl. 3 fig. 10. 1903 Kerremans p. 192.
1892 Kerremans p. 220.

Type locality: Mexico.
Distribution: Mexico and Arizona.
Arizona: Ft. Yuma (8); Nogalis IX-18 (16); Ft. Grant (17).
Host: Unknown.

299. SPECULIFER Horn (9432)

1886 Horn p. 83, pl. 3 figs. 56-60. 1903 Kerremans p. 192.
1892 Kerremans p. 221.

Type locality: California.
Distribution: Utah, California, Arizona, New Mexico, Colorado and Texas.
California: Lectotype and paratype (17); Pasadena V (13); Los Angeles (10).
Arizona: Ash Fork VI-18 (10); Williams VI-16 (10); Grand Canyon VII-10 (10).
Texas (17). Colorado: (4).
Utah: Smooth Cr., Beaver Co. VI-20 (16); Box Canyon VI-12 (16).
Host: Unknown.

300. *STRANGULATA Melsheimer (9450)

*Considered a valid species by some.

STRANGULATA Melsheimer (9450), See PUSILLA Laporte-Gory

301. SUBOPACA Schaeffer (9475)

1904 Schaeffer p. 208.
Type locality: Tulare County, California.
Distribution: Reported only from type locality.
Host: Unknown.

SUBSYLINDRICA Mots., See DELATA Leconte

302. SYLVANIA Fall (9457)

1910 Fall p. 50.
1913 Woodworth p. 196.
1916 Van Dyke p. 410.
1917 Chamberlin p. 139.
1920 Chamberlin p. 151-154.
1924 Chamberlin p. 191.

Type locality: Sylvania, California.
Distribution Oregon and California.
Oregon: Corvallis IV-20 (c); Mt. Jefferson (c); Douglas Co. IX-1 (c); Forest Grove (c).
California: Sonoma Co. (15); Del Monte Co. (15).
Host: Douglas fir *(Pseudotsuga taxifolia)*, apple? *(Pyrus malis)*.

303. TEXANA Leconte (9429)

1859 Leconte p. 234.
1873 Crotch p. 90.
1886 Horn p. 96 pl. 5 figs. 130-134.
1892 Kerremans p. 221.
1894 Horn p. 366.
1898 Cockerell p. 152.
1904 Schaeffer p. 27.
1907 Fall-Cockerell p. 180.
1913 Woodworth p. 196.
1918 Burke p. 211.

Type locality: Texas.
Distribution: California, Colorado, Arizona, New Mexico and Texas.
Texas: El Paso (c).
Utah: Beaver Canyon VIII (16).
Arizona: Senator (4).
New Mexico: Coolidge 7000 ft. (25).
Host: Rocky Mountain juniper *(Juniperus scopolorum)*.

304. THORACICUS Schaeffer (9428)

1905 Schaeffer p. 128.
Type locality: El Taste, Lower California.
Distribution: Lower California (El Taste and Santa Rosa).
Host: Unknown.

305. TRANQUEBARICA Linn (9423)

1787 *B. impressa* Fabricii p. 182. No. 61 (name preoccupied).
1788 *B. tranquebarica* Linne p. 1932 No. 74 (Gmelin).
1790 *B. excavata* Oliver p. 23? No. 95.
1792 *B. excavata* Fabricii p. 206 No. 84.
1801 *B. excavata* Fabricii p. 205 No. 105.
1805 Illiger p. 90 No. 70.
1829 *impressa* Eschscholtz p. 8.
1837 *fraterna* Mannerheim Vol 10 p. 75-76.
1837 *rugosa* Mannerheim Vol. 10 p. 74-75.
1841 *denticollis* Laporte-Gory IV p. 178 pl. 30 fig. 173.
1841 *denticulata* Laporte-Gory II p. 46 pl. 8 fig. 62.
1841 *serripennis* Laporte-Gory p. 46 pl. 8 fig. 63.
1867 *tumida* Chevrolot p. 585.
1867 *impressa* Chevrolot p. 586.
1869 *Colobogaster impressa* Fab., Gemminger-Harold p. 1422.
1871 Saunders p. 96.
1886 *impressa* Horn p. 109, 110, 121 pl. 4 figs. 198-202.
1888 *impressa* Schwarz p. 93.
1889 Fleutiaux p. 404.
1889 *impressa* Fab., Fleutiaux p. 404.
1889 *excavata* Oliver Fleutiaux p. 404.
1889 *denticulata* Laporte-Gory, Fleutiaux p. 404.
1889 *denticollis* Gory, Fleutiaux p. 404.
1889 *rugosa* Mann., Fleutiaux p. 404.
1889 *fraterna* Mann., Fleutiaux p. 404.
1892 *denticulata* L.-G. = *impressa* Fab., Kerremans p. 211.
1893 Gundlach p. 169.
1903 *impressa* Kerermans p. 186.
1908 Heyne-Taschenburg p. 139.
1914 Leng-Mutchler p. 430.
1916 *impressa* Fab., Howard p. 452
1917 Snyder p. 136; p. 245.
1918 *impressa* Fab.=*tranquebarica* Gmel., Fisher p. 173, 177.
1919 Snyder p. 155, 163 pl. 18, 21 figs. 1, 2.
1925 Fisher p. 93, 96, 99.

Type locality: West Indies?.

Distribution: Florida, Antilles, Santa Domingo, Puerto Rico, Guadalupe, Cuba, Dutch Guiana and St. Thomas.

Florida: Miami VI (10); Hebe Sound V-17 (10); Key West (10); Biscayne Bay (10); Elliott Key (1).

Host: Red mangrove *(Rhizophora mangle)*, Australian pine *(Casuarina equisetifolia)*, Butterwood *(Conocarpus eracta)*.

306. TRINERVIA Kirby (9458)

1837 *Buprestis (Odonotomus) trivervia* Kirby p. 157 pl. 2 fig. 9.
1848 White p. 34.
1852 *cicatricosa* Motschulsky p. 77.
1859 Motschulsky p. 184.
1859 Leconte p. 235.
1871 Bethune p. 230.
1872 *trimervia* Bethune p. 31.
1873 Crotch p. 90.

1874 Couper p. 137.
1874 Austin p. 269.
1877 Packard p. 805.
1878 Glover pl. 36 fig. 22.
1878 Hubbard-Schwarz p. 636.
1882 Leconte List I and V.
1886 Horn p. 90 pl. 4 figs. 90-94.
1886 *cicatricosa* Mots. = *trinervia* Kirby, Horn p. 120.
1889 Blanchard p. 31.
1890 Packard p. 680.
1890 Harrington p. 159.
1892 Kerremans p. 222.
1893 Cockerell p. 311.
1894 Slosson p. 3.
1894 Hamilton p. 29.
1895 Hamilton p. 364.
1895 Evans p. 146.
1896 Bowditch p. 6.
1898 Cockerell p. 151.
1899 Wickham pt. VII p. 236.
1901 Fall p. 117.
1903 Kerremans p. 187.
1903 *cicatricosa* Kerremans p. 187.
1906 Felt p. 751.
1907 Fall-Cockerell p. 179.
1909 Blatchley p. 791.
1912 Frost p. 306.
1916 Frost p. 386.
1917 Chagnon p. 218.
1917a Burke plate II fig. 4.
1918 Burke p. 211.
1919 Swaine p. 13e.
1920 Frost p. 232.
1922 Knull p. 83.
1924 Mundinger p. 316.

Type locality: Latitude 54° Rocky Mountains.

Distribution: Alaska and Hudson Bay, south through New England States and Rocky Mountains to Carolina, New Mexico, Oregon and California.

Canada: Yukon, H. B. T. (10); Halifax, N. S. (Swaine).

Maine: Paris VII-7 (c).

New Hampshire: Mt. Washington VII-4 (c).

Michigan: Isl. Royal (8); White Fish Point (10).

Kansas: (17); Colorado: (4); South Dakota: (10).

New Mexico: Vermego V (10); Cloudcraft VI (17); Beulah 7800 ft. VII (c); Gallinos Can. (24); Santa Fe Can. (24).

California: Truckee 5800 ft. (4).

Oregon: Portland (4).

Montana: Glacier Park VIII-22 (8).

Alaska: Ft. Yukon, Salmon River (C).

Host: Western yellow pine *(Pinus ponderosa)*, limber pine *(P. flexilis)*, white pine *(P. strobus)*, pinion *(P. edulis)*.

TUMIDA Chevrolat, See TRANQUIBARICA Gmelin

ULTRAMARINA Laporte-Gory, See AZUREA Leconte

307. ULKEI Leconte (9411)

1859 Leconte p. 240.
1871 Saunders p. 96.
1886 Horn p. 117 pl. 7 fig. 243.
1892 Kerremans p. 222.
1894 Horn p. 368.
1903 Kerremans p. 192.

Type locality: Texas.

Distribution: Texas and California.
Texas: Marathon, Brewster Co. VIII, 4000 ft. (8).
California: Amedee, July, El. 4200 ft (W).
Host: Unknown.

308. VERDIGRIPENNIS Frost (9459)

1910 Frost p. 43.
1910 Fall p. 49.
1912 Gibson p. 12.
1913 Gibson p. 126.
1920 Frost p. 231, 249.
1922 Knull p. 83.
1923 Frost p. 281.
1924 Frost p. 34.

Type locality:: Maine.
Distribution: Nova Scotia, Maine, Vermont, Connecticut, New York, Manitoba, Michigan, Pennsylvania (Montebello, July, Knull), Nova Scotia (Gibson).
Host: Hemlock *(Tsuga canadensis)*.
Season: July-August.

VIRIDIPUNCTATA Laporte-Gory, See CHRYSOELA Illiger

VIRIDICEPS Mels., See FEMORATA Fab.

309. VIRIDICYANEA Horn (9478)

1886 Horn p. 84 pl. 3 figs. 61-65.
1892 Kerremans p. 222.
1901 Fall p. 117.
1913 Woodworth p. 196.
1917 Chamberlin p. 138.
1924 Chamberlin p. 190.
1924 Van Dyke p. 18.

Type locality: Nevada.
Distribution: Oregon, Montana, California and Nevada.
Oregon: Ashland VII-3 (10); Ochoco National Forest VI-30 (c); Burns VI-5.
California: Miami VI (13); Mohawk VI (13); Shasta (8); Cisco 6000 ft. (4); Fresno VIII (8); Los Angeles (10); Tulare Co. (16); Yosemite VI-18 (c); Trinity, Shasta, Siskiyou and Placer Co. (15).
Nevada: Lectotype and paratype "Nev." (17).
Host: Incense cedar *(Libocedrus decurrens)*, Douglas fir *(Pseudotsugae taxifolia)*, western juniper *(Juniperous occidentalis)*, and Lawson's cypress *(Chamaecyparis lawsoniana)*.

VULCANICIA Leconte, See CALIFORNICA Leconte

310. WOODGATEI C. & K.

1922 Champlain and Knull p. 144.
Type locality: Jemez Springs, New Mexico.
Distribution: Known only by the type.
Host: Not known.
Season: July.

Genus *CHRYSOPHANA* Lec.

1859 Leconte p. 217-219.
Type of the genus **ANCYLOCHCIRA PLACIDA** Leconte.

311. PLACIDA Lec. (9207)

1854 *Ancylochcira placida* Leconte p. 17.
1859 Leconte p. 219.
1888bHolland p. 91.
1892 Kerermans p. 108.
1893 Fall p. 235.
1895 Fall p. 98.
1898 Cockerell p. 152.
1901 Fall p. 117.
1902 Kerremans p. 21.
1906 Kerremans p. 404.
1907 Fall-Cockerell p. 180.
1912 Gibson p. 14.
1913 Gibson p. 126.
1917 Chamberlin p. 166.
1917 Burke p. 88.
1917 Burke p. 406.
1917aBurke p. 3 pl. VIII fig. 5.
1917 Burke p. 330.
1920 Burke p. 75.
1924 Chamberlin p. 193.
1925 Good p. 272 fig. 31.

Type locality: Oregon.
Distribution: British Columbia, south through the Rocky Mountain and Pacific Coast States.
British Columbia: Peachland (Gibson); Vancouver.
Washington: Seattle (3); Des Moines (23).
Oregon: Talent (10); Ashland VI-9 (C); Dilly (16); Gold Hill (10); Permelia Lake 3000 ft. VII-23 (C); Corvallis IV-26, V-2 (C); Wren VIII-11 (C); Klamath Indian Reservation VII-26 (C); Sumpter (23); Waldo (23); Clear Lake, Badger Cr., Ochoco Nat. For. (0); Pratum VII-20 (0); Junction City VI-23 (0); Salem III-25; Elkton III-19 (0); Pinehurst (C); Sparta VII-3 (C); Halfway VII-4 (C).
California: Vade VIII-5 (10); Yreka V-25, VIII-2 (10) Pyramid R. S. VIII-2 (23); Doble (10); Ventura Co. (10); Placerville (10); Summerdale (13); Lake Co. VI, VII, VIII (13); Glen Alpine (13); McCloud (13); Placer Co. (13); Tellac (13); Miami (13); Mellwood, Fresno Co. (16); Mendocino Co. (18); San Luis Obispo (10); Kern River Can. 7000 ft. (7); Summit Meddow, Fresno Co. 7000 ft. VII-4 (8); Giant Forest 6400 ft. (W); Sisson (25).
Arizona Senator IV-7 (4); Williams VI-21 (10); Bright Angle, G. C. VII-11 (10).
Nevada: Armsby Co. (10); Lake Tahoe (10).

Nebraska: War Bonnet Canyon (10).
Colorado: Boulder (10); Florescent (23).
Utah: Beaver (17; Panguitch Lake (23); Kamas (23).
New Mexico:
Hosts: Larvae bores in the cones of Knobcone pine *(Pinus attenuata)*, and yellow pine *(P. ponderosa)*, and in the wood of white pine *(P. monticola)*, Sugar pine *(P. lambertiana)*, Lodgepole pine *(P. contorta)*, Yellow pine *(P. ponderosa)*, single-leaf pinion *(P. monophylla)*, Knobcone pine *(P. attenuata)*, Yellow pine var. *(P. scopulorum)*, Jeffrey pine *(P. jeffreyi)*, Digger pine *(P. sabiniana)*, Mountain Hemlock *(Tsuga mertensiana)*, Alpine fir *(Abies lasiocarpa)*, White fir *(A. concolor)*, Lovely fir *(A. magnifica)*, Western red cedar *(Thuja plicata)*, and Douglas fir *(Pseudotsuga taxifolia)*.
Altitude: Up to 7500 feet.
Season: March to September.

Genus *CINYRA* Lap. et Gory

1837 Laporte et Gory I p. 157 pl. 39.
Type of the genus **BUPRESTIS ELONGATA** Fab.

ABBREVIATA Casey (9356), See GRACILIPES Melsheimer

312. GRACILIPES Mels. (9355)

1844 *Dicerca gracilipes* Melsheimer p. 145.
1857 *Dicerca* Lacordaire p. 36.
1859 Leconte p. 211.
1870 Pettit p. 102.
1871 Saunders p. 47.
1889 Blanchard p. 30.
1894 Stormberg p. 37.
1902 Ulke p. 21, 47.
1903 *Halecia* Kerremans p. 70.
1904 Schaeffer p. 205.
1905 Schaeffer p. 128.
1906 Felt p. 701.
1909 Blatchley p. 785.
1909 Smith p. 292.
1909 *macilenta* Casey p. 175.
1909 Casey p. 175.
1909 Wickham p. 23.
1914 *macilenta* Casey p. 362.
1914 Casey p. 363.
1914 *ocularis* Casey p. 362.
1914 *abbreviata* Casey p. 362.
1915 Frost p. 269.
1919 Nicolay p. 18.
1920 Knull p. 6.
1920 Chamberlin p. 243.
1921 Nicolay p. 174.
1922 Knull p. 81.
1925 Good p. 272 fig. 3.
1925 Chapin p. 33.

Type locality: Massachusetts.
Distribution: Ontario to South Carolina, west to Iowa and Missouri.
Massachusetts: Sherborn (14).
New York: Rosedale, L. I. VII-15 (19).
New Jersey: Spotswood (4); Malaga V-31 (8); Snook Hill VII (16).

Pennsylvania: Pittsburg IV (3); Hummelstown V-29 (c); Delaware Co. VII-28 (8; Philadelphia VII-8 (8); Harrisburg (20).
Virginia: Falls Church (10); Ft. Monroe (10).
Iowa: Iowa City (W).
Ohio: Cincinnati (10).
Host: Burr oak *(Quercus macrocarpa)*, white oak *(Q. alba)*, Swamp, White oak *(Q. bicolor)*, and Ironwood *(Ostrya virginiana)*.

MACILENTA Casey (9358), See GRACILIPES Mels.

OCULARIS Casey, See GRACILIPES Mels.

313. PROSTERNALIS Schaef. (9357)

1904 Schaeffer p. 205.
1905 Schaefer p. 128.
1920 Chamberlin p. 243.
1921 Nicolay p. 174.
Type locality: Brownsville, Texas.
Texas: Brownsville VII (c) (16); San Diego V-14 (10).
Host: Ironwood.

314. PURPURASCENS Schaef. (9359)

1905 Schaeffer p. 127.
1920 Chamberlin p. 243.
1921 Nicolay p. 174.
Type locality: El Taste, Lower California.
Host: Unknown.

315. ROBUSTA Chamberlin

1920 Chamberlin p. 241.
1921 Nicolay p. 174.
Type locality: Texas.
Distribution: Known only by the type.

Genus **DICERCA* Eschholtz

1829 Eschscholtz p. 9 (page 8 in some editions).

STENURIS Kirby (1837 p. 154)
Type of the genus BUPRESTIS AENEA Linn.

ABRUPTA Casey, See CAUDATA Lec.

ACERBA Casey, See CHRYSEA Mels.

AESTIVA Casey, See DIVARICATA Say

*In the original work this generic name is spelled *Dicerea*.

316. AMERICANA Herbst

1801 *Buprestis* Herbst p. 107 pl. 148 fig. 3.
1817 *Buprestis* Schonherr p. 217 No. 27.
1837 *impressifrons* Dejean p. 87.
1837 *coryphaea* Dejean p. 87.
1841 *asperata* Laporte-Gory p. 105 pl. 27 fig. 142.
1944 *impressifrons* Melsheimer p. 144.
1844 *B. aenea* Mels.=*impressifrons* Melsheimer p. 144.
1857 *chrysea* Mels.=*asperata* L.-G., Leconte p. 7.
1857 *molitor* Mels.=*chrysea* Mels., Leconte p. 7.
1857 *Poecilonota americana* Lacordaire p. 36.
1857 *B. impressifrons* Mels., Lacordaire p. 36.
1859 *asperata* Leconte p. 199.
1870 *asperata* Pettite p. 102.
1873 *asperata* Crotch p. 85.
1878 *asperata* Hubbard-Schwarz p. 655.
1882 *asperata* Bowditch p. 27.
1888 *asperata* Hamilton p. 65.
1889 *asperata* Chittenden p. 219.
1889 *asperata* Blanchard p. 30.
1890 *asperata* Packard p. 221, 328.
1892 *asperata* L.-G.=*scobina* Chev., Kerremans p. 86.
1902 *asperata* Ulke p. 21.
1906 *asperata* Felt p. 701.
1909 *asperata* Wickham p. 23.
1909 *asperata* Lec. = *americana* Herbst, Smith p. 292.
1909 Casey p. 163.
1909 *impressifrons* Mels.=*asperata* Lec.=*americana* Herb., Casey p. 163.
1913 Manee p. 167, 168.
1915 Kwiat p. 237.
1917 *asperata* Gibson p. 149.
1919 *asperata* Schaeffer p. 147.
1920 Knull p. 5.
1920 Britton p. 243.
1922 Knull p. 80.

Type locality: Pennsylvania.
Distribution: Ontario to North Carolina, west to Illinois and Iowa.
New York: Buffalo (4); Peekskill (7); Long Island (16).
Massachusetts: Hubbardstown (14); Stoneham (14).
New Jersey: Fort Lee (9); Madison (16).
Pennsylvania: Pittsburg (9); Lingbston? (10); State College XII-13, 1-9 (Knull); Rockville, Delaware Co.
Maryland: (17).
Washington, D. C.:: (10).
North Carolina: Tyron, April (10); Broodman, Nov. (10); Highlands (10).
Michigan: Ann Arbor (10).
Georgia: Decatur Co., June (4).
Iowa: Iowa City (W).
Hosts: Bred from white oak *(Quercus alba)*, and hickory *(Hickoria sp.)*. Reported from oak, loblolly, longleaf pine, Poison oak *(Toxidendron disticum)*, and *Pinus virginiana*.

AMPLIATA Casey, See HORNI Crotch

ASPERATA L .et G., See AMERICANA Herbst

AUGUSTICAUDA Casey, See PROLONGATA Lec.

AURICHALCEA Melsheimer, See DIVARICATA Say

AUSTERA Casey, See TENEBROSA Kirby

BALTIMORENSIS Herbst, See OBSCURA Fabricii

BIANGULATA Casey, See CAUDATA Lec.

BIFOVEATA Lec., See TENEBROSA Kirby

CALIFORNICA Crotch, See TENEBROSA Kirby

CALLOSA Casey, See PROLONGATA Lec.

317. CAUDATA Lec. (9334)

1859 Leconte p. 195.
1873 Crotch p. 85=(var. of *divaricata)*.
1889 Blanchard p. 29.
1892 *caudata* Lec.=*divaricata* Say, Kerremans p. 86.
1902 *var. caudata* Ulke p. 21.
1909 Casey p. 142.
1912 Frost p. 305.
1909 *cupreola* Casey p. 141.
1909 *filiola* Casey p. 141.
1909 *subaequalis* Casey p. 143.
1909 *nigra* Casey p. 143.
1909 *abrupta* Casey p. 139.
1909 *inflatula* Casey p. 140.
1909 *biangulata* Casey p. 140.
1909 *pisciformis* Casey p. 140
1909 *longicauda* Casey p. 141.
1915 Kwiat p. 237.
1917 var. *caudata* Nicolay p. 93.
1918 Gibson p. 112.
1919 Nicolay p. 18.
1920 Frost p. 27.
1920 Britton p. 243.
1922 Knull p. 20.

Type locality: Pennsylvania.
Distribution: New Yory (N. Y. City) (4); White Plains, Oct. (4); Baysboro, L. I. 7/2 (19).
Maine: Norway VIII-30 (14). Illinois, Massachusetts.
Pennsylvania: Charter Oak, Cresco and Harrisburg.
Colorado: Larkspur VII-28 (10).
Canada: Victoria Beach, Manitoba, June (Wallis).
Host: Black birch *(Betula nigra)*, Western birch *(B. occidentalis)*, Black alder *(Alnus incana)*, Yellow pine *(Pinus scopulorum)* (10).

318. CHRYSEA Melsheimer (9346)

1844 *Buprestis* Melsheimer p. 143.
1857 Lacordaire p. 36.
1859 Leconte p. 200.
1870 Pettit p. 102.
1873 *chrysea* Mels.=*tenebrosa* Kby., Crotch p. 86.
1889 Blanchard p. 30.
1892 *chrysea* Mels.=*tenebrosa* Kby., Kerremans p. 86.
1893 Hamilton p. 274.
1895 Evans p. 146.
1909 *acerba* Casey p. 158.
1909 *Wickhami* Casey p. 160.
1912 Frost p. 305.
1915 Frost p. 142.
1917 Gibson p. 149.

Type locality: Pennsylvania.
Distribution: Maine: Monmouth VI-27 (c).
New York:: Syracuse (10); Lewis Co. (10).
Michigan: Marquette VI-27 (10).
Canada: Edmonton, Alba., June; Ontario.
Massachusetts: Framingham VI-20, VI-25 (c).
Host: Balsam fir *(Abies balsamea)*.

CONSIMILIS L.-G., See LURIDA Fab.

CONSOBRINA Mels., See TUBERCULATA L.-G.

CORROSA Dej., See LURIDA Fab.

CORYPHAEA Dejean, See AMERICANA Herbst

CROSSICOLLIS Lec. (9347), See TENEBROSA Kby.

CUPREOLA Casey, See CAUDATA Leconte

319. DISTINGUENDA Laporte-Gory

1837 *Buprestis* Laporte et Gory p. 100 pl. 26 fig. 127.
1871 *tenebrosa* Kby.=*distinguenda* L.-G., Saunders p. 36.
1873 *distinguenda* L.-G.=*tenebrosa* Kby., Crotch p. 86.
1873 *distinguenda* L.-G. = (male) *tenebrosa* Kby., Leconte p. 331.
1903 Kerremans p. 132.
1909 Casey p. 157.

Type locality: Boreal America.
Distribution: Owing to the confusion which exists among the closely allied species it is quite impossible to give the distribution or hosts of *distinguenda*.

320. DIVARICATA Say (9333)

1823 *Buprestis* Say (p. 157) pp. 163-164.
1837 *S. diviricata* Kirby p. 154.
1837 Kirby p. 154.
1837 Dejean p. 87.
1844 *dubia* Melsheimer p. 142.
1844 *parumpunctata* Melsheimer p. 143.
1844 *aurichalcea* Melsheimer p. 142-143.
1848 White p. 20.
1850 Leconte p. 227.
1850 *dubia* Mels., Leconte p. 227.
1852 Harris p. 42.
1859 Leconte p. 195.
1862 Harris p. 48.
1869 Harris p. 357.
1869 Glover p. 91.
1870 Jones p. 8.
1870 Weilandy p. 148.
1870 Riley p. 103.
1870 Pettit p. 102.
1871 Glover p. 65
1872 *B. (Sternuris) divaricata* Bethune p. 31.
1873 Crotch p. 85.
1876 Thomas p. 112.
1877 Provancher p. 348.
1878 Glover pl. X fig. 5.
1878 Hubbard-Schwarz p. 636, 655.
1880 Zesch-Reinecke p. VII.
1882 Bowditch p. 27.
1883 Riley p. 25.
1883 Leconte p. 590.
1884 Harrington p. 36.
1886 Caufield p. 196.
1887 Harrington p. 30.
1888 Cockerell p. 58, 178.
1888 Hamilton p. 64.
1888 *dubia* Mels., Hamilton p. 64.
1889 Chittenden p. 219.
1889 Blanchard p. 29.
1890 Harrington p. 51.
1890 Packard p. 328, 386, 424, 519, 530.
1890 Marten p. 7.
1891 Smith, G. W. p. 422.
1892 Kerremans p. 86.
1892 *B. divaricatus* Washburn p. 10.
1893 Hopkins p. 181.
1894 Harrington p. 15.
1894 Slosson p. 6.
1895 Evans p. 146.
1895 Hamilton p. 364.
1895 Daggett p. 313.
1896 Bowditch p. 6.
1897 Harrington p. 70.
1899 Lugger p. 136.
1899 Lugger p. 52.
1900 Pettit p. 41.
1901 Scott p. 36.
1901 Felt p. 834.
1902 Kerremans p. 131.
1902 *divaricata* Say, Kerremans p. 131.
1902 *dubia* Mels., Kerremans p. 131
1902 *aurichalcea* Mels., Kerremans p. 131.
1902 *parumpunctata* Mels., Kerremans p. 131.
1902 *caudata* Lec., Kerremans p. 131.
1902 *prolongata* Lec., Kerremans p. 131.
1902 Ulke p. 21.
1902 McGillivray-Houghton p. 251.
1904 Pettit p. 419.
1904 Washhburn p. 82.
1905 Schaeffer p. 147.
1906 Felt p. 428, 457.
1907 Gibson p. 80.
1908 Morris p. 443.
1908 Houghton p. 160.
1909 Morris p. 58 pl. 58 fig. 11.
1909 Wickham p. 23.

1909 Easton p. 50.
1909 Smith p. 292.
1909 Casey p. 144.
1909 *aestiva* Casey p. 145.
1909 *limula* Casey p. 144.
1909 *abrupta* Casey p. 140.
1909 *sulcatula* Casey p. 147.
1909 *rustica* Casey p. 146.
1909 *severa* Casey p. 149.
1909 *subcuprea* Casey p. 146.
1909 *incisa* Casey p. 144.
1909 *pertinax* Casey p. 147.
1909 *parumpunctata* Mels., Casey p. 145.
1909 *subargentea* Casey p. 148.
1909 *aurichalcea* Mels., Casey p. 145.
1912 *caudata* Frost p. 305.
1912 Frost p. 305.
1914 Comstock p. 549.
1915 Adams p. 148.
1915 Johnson p. 312.
1915 Somes p. 13.
1915 Frost p. 142.
1917 Nicolay p. 92.
1917 var. *caudata* Nicolay p. 92.
1917 Chagnon p. 217.
1919 Morris p. 50.
1920 Knull p. 5.
1920 Britton p. 243.
1920 Rohwer p. 446, 459, 469.
1922 Knull p. 80.
1924 Hatch p. 571.
1924 Blackman and Stage pp. 17, 34, 60, 256.
1924 Mundinger p. 315.
1925 Fisher p. 130, 132-133.
1925 Good p. 258, 272, figs. 22, 23.

Type locality: "United States."

Distribution: Maine to North Carolina into the Mississippi Valley, Southeastern Canada, Haiti, W. I. (Fisher).

Cumberland Co., Maine (4); Bennington Co., Vermont (4).

Washington, D. C.: VI-10 (10).

New Hampshire: (10). Canadian Rockies (Kirby).

New York: Buffalo (4); Ithaca (4); Golden VI-30 (10); Andover VII-28 (10); Wading River, L. I. V-30 (19).

New Jersey: Ft. Lee (4); Greenwood Lake (16); Dunellen (16).

Iowa: Iowa City (W); Ames (c).

Massachusetts: Amherst.

Illinois: Willow Springs VI-20 (c).

Pennsylvania: Pittsburg (3); Castle Rock VI-8 (8); Rickets V-22 (8); Jannette (3); Hummelstown (3).

Virginia: Charter Oak, July (10).

North Carolina: Tyron (10); Melrose V (10).

Michigan Marquette (10); Eagle Harbor VII-4 (10); Detroit (10); Newberry (10); Chatham VII-7 (Pettit).

Massachusetts: Fitchburg (10); Framingham (c).

Host: Red maple *(Acer rubrum)*, sugar maple *(A. saccharum)*, aspen *(Populus tremuloides)*, birch *(Betula americana)*, black birch *(B. lenta)*, oak *(Quercus sp.)*, beech *(Fagus atropunicea)*, apple *(Pyrus malus)*, Black Cherry *(Prunus serotina)*, Black alder *(Alnus incana)*, Black cottonwood *(Populus trichocarpa)*, Willow *(Salix sp.)*, pear, peach, prune *(P. communus)*, ironwood *(Ostrya virginiana)*, Linden

(Tilia americana), white ash *(Fraxinus americana)*, black ash *(F. nigra)*, redbud *(Cercis canadensis)*, and American elm *(Ulmus americana)*.

DUMOLINI Lap. et Gory (9348), See TUBERCULATA L.-G.

DUBIA Mels., See DIVARICATA Say

EROSA Casey, See LURIDA Fab.

FILIOLA Casey, See CAUDATA Leconte

FLORIDAE Casey, See OBSCURA Fab.

GAUDENS Cas., See LURIDA Fabricii

GRACILIS Casey, See LURIDA Fab.

HESPERICA Casey, See TENEBROSA Kirby

HILARIS Lec., See TUBERCULATA L.-G.

321. HORNI Crotch (9339)

1873 Crotch p. 86.
1892 Kerremans p. 87.
1894 Fall p. 98.
1902 Van Dyke p. 172.
1903 Kerremans p. 131.
1908 Wright-Coolidge p. 67.
1909 Casey p. 153.
1909 *ampliata* Casey p. 153.
1913 Woodworth p. 196.
1917 Chamberlin p. 130.
1917bBurke p. 326.
1920 Chamberlin p. 107.
1924 Chamberlin p. 185.
1925 Chamberlin p. 186.

Type locality: Tulare County, California.
Distribution: Montana, Idaho, Washington, Oregon, California, Nevada and Lower California.
Colorado: Moffit Cr. (10).
Idaho: Riggius (10).
Washington: Pullman (10); Almota (10).
Oregon: Grants Pass IX-5 (10); Applegate River (25).
Nevada: Sierra Madra (13).
California: Trinity County (4); Tulare County, Dec. (4); King's River Can., July (7); Santa Monica (5); Mt. Wilson V-2, VI-4 (7); San Bernardino Mts. VI-2 (7); Kawenah V-15 (8); Piedmont VIII-15; Los Angeles County (10); Ft. Jones (10); Los Gatos (10); Placerville (c); Shasta (10); Santa Clara (10); Eureka VI-19 (10); Azusa, July (13); Sierra Madra (13); Ahwahnee, May (13).
Lower California: Ensenada (1); El Taste (9).

Host: Snow berry *(Symphoricarpos racemosus)*, buck brush *(Ceanothus cuneatus)*, blue brush *(C. thyrsoflorus)*, deer brush *(C. integerrimus)*, coffee berry *(Rhamnus californica)*, poison oak *(Toxicodendron diversiloba)*, white alder *(Alnus rhombifolia)*, mountain alder *(A. tenufolia)*, mountain mahogany *(Cercocarpus parvifolius)*, plum *(Prunus domestica)*, sweet cherry *(P. avium)*, sumach *(Rhus glabra ocidentalis)*.

IMPRESSIFRONS Mels., See AMERICANA Herbst

INAEQUALIS Dejean

(Dej. 1837 p. 87. Said to be a synonym of *tuberculata* Chev.)

INDISTINCTA Mels., See LURIDA Fabricii

INDURATA Casey, See OBSCURA Fabricii

INFLATULA Casey, See CAUDATA Lec.

INCISA Casey, See DIVIRICATA Say

INNOCUA Casey, See LURIDA Fabricii

LACUSTRIS Leconte, See LUGUBRIS Leconte

322. LEPIDA Leconte (9343)

1841**B. pugionata* Lap. et Gory II p. 99 pl. 26 fig. 136.
1857 *B. pugionata* L.-G.=*D. lepida* Leconte p. 7.
1859 Leconte p. 198.
1873 Crotch p. 85.
1873 *maculosa* Gory=*lepida* Lec., Leconte p. 31.
1892 Kerremans p. 87.
1894 Stormberg p. 37.
1895 Hamilton p. 364.
1902 Ulke p. 21.
1903 *B. pugionota* L.-G.= *lepida* Lec., Kerremans p. 132.
1919 Casey p. 138.
1920 Knull p. 5.
1922 Knull p. 80.

Type locality:: Pennsylvania?
Distribution: Massachusetts to Florida, west to Illinois.
Masachusetts: Stoneham (14).
Pennsylvania: Hummelstown VIII-I, VIII-15 (c); Rockville and Charter Oak (Knull).
Alabama: Mobile.
District of Columbia: Washington.

**B. pugionata* of L. et G. is not the true *D. pugionata* of Germar but a species later described by Leconte as *D. lepida*.

New York:
Florida: (16).
Host: Hawthorn *(Crataegus coccinea)*, and ironwood *(Ostrya virginiana)*.

LEVETTEI Casey, See LURIDA Fabricii

LIMULA Casey, See DIVIRICATA Say

LONGICAUDA Casey, See CAUDATA Leconte

CAUDATA Leconte, See PROLONGATA Leconte

323. LUGUBRIS Leconte

1859 Leconte p. 200.
1859 *lacustris* Leconte p. 202.
1873 Crotch p. 86.
1873 *lacustris* Lec.=*lugubris* (female) Lec., Crotch p. 86.
1878 Hubbard-Schwarz p. 636.
1887 Harrington p. 31.
1892 *lugubris* Lec.=*tenebrosa* Kby., Kerremans p. 87.
1895 Evans p. 146.
1902 *lugubris* Lec.=*tenebrosa* Kby., Kerremans p. 132.
1909 Casey p. 156.
1909 *lacustris* Casey p. 156.
1909 *austera* Casey p. 157.
1921 Nicolay p. 174.

Type locality: Marquette, Michigan.
Distribution: Ontario to Michigan, Louisiana.
New Jersey: Atlantic City.
Michigan: Marquette 7/8 (4); White Fish Point (10).
Minnesota: Lake Itasca (c); Duluth (c).
Louisiana:: Vowell's Mill, Aug. (4).
Host: Maple *(Acer sp.)*.

324. LURIDA Fabricii (9342)

1775 *Buprestis* Fabricii p. 217 No. 7.
1781 Fabricii p. 274 No. 8.
1787 Fabricii p. 176 No. 10.
1788 Linne p. 1927.
1790 Oliver p. 20 pl. 8 fig. 83.
1792 Fabricii p. 190 No. 18.
1801 Fabricii p. 190 No. 24.
1801 Herbst p. 75 pl. 143 fig. 4.
1806 *cuprea* Melsheimer p. 45 No. 999.
1806 *maculata* Melsheimer p. 45 No. 1004.
1817 Schonherr p. 219 No. 136, 127
1832 Say p. 60 No. 3.
1836 Say p. 157.
1837 *corrosa* Dejean p. 87.
1837 *consimilis* Laporte-Gory I, p. 104.
1841 *B. lurida* Laporte-Gory II p. 105 pl. 27 fig. 144.
1844 *indistincta* Melsheimer p. 143.
1846 Strum p. 59.

1848 White p. 20.
1848 *corrosa* Dej., White p. 20.
1848 *caprea* Mels., White p. 20.
1848 *maculata* Mels., White p. 20.
1857 Thompson p. 377.
1857 *B. indestincta* Lacordaire p. 36.
1857 Leconte p. 7.
1859 Leconte p. 197.
1862 Harris p. 48.
1869 Glover p. 91.
1870 Pettit p. 102.
1872 Clementi p. 37.
1873 *lurida* Fab.=*obscura* Fab., Crotch p. 85.
1873 *D. obscura* Fab.=*lurida* Fab.=*consimilis* L.-G., Leconte p. 331.
1873 *pruinosa* L.-G. resembles *lurida* Fab., Leconte p. 331.
1874 Austin p. 269.
1874 LeBaron p. 95.
1876 Thomas p. 113.
1880 Osborn p. 226.
1882 Osborn p. 3.
1882 Bowditch p. 27.
1883 Leconte p. 590.
1884 Harrnigton p. 44.
1888 Hamilton p. 65.
1889 Blanchard p. 30.
1889 Chittenden p. 220
1890 Packard p. 290.
1892 *larida* Lec. = *obscura* Fab., Kerremans p. 87.
1893 Hopkins p. 181.
1895 Hamilton p. 364.
1896 Wolcott p. 236.
1896 Bowditch p. 6.
1902 var. *lurida* Ulke p. 21.
1906 Felt p. 427, 442, 504.
1909 Smith p. 292.
1909 Blatchley p. 782.
1909 Wickham p. 23.
1909 Casey p. 136.
1909 *erosa* Casey p. 136.
1909 *innocua* Casey p. 133.
1909 *gracilis* Casey p. 133.
1909 *truncata* Casey p. 133.
1909 *seriata* Casey p. 136.
1909 *indistincta* Mels., Casey p. 136.
1909 *levettei* Casey p. 135.
1909 *gaudens* Casey p. 135.
1912 *obscura* variety *lurida* Engelhardt p. 221.
1915 Adams p. 147.
1915 Robertson p. 151.
1915 Johnson p. 312.
1919 Nicolay p. 19.
1920 Knull p. 5.
1920 Britton p. 243.
1920 Frost p. 28.
1921 Kalmbach p. 61.
1922 Knull p. 80.
1924 Chamberlin p. 185.
1924 Rhoads p. 56.
1924 Blackman and Stage pp. 14, 16, 17, 19-25, 27, 29-34, 252, 256.

Type locality: America. (Exact locality not known.)

Distribution: Ontario to Florida, west to Indiana, Iowa, Texas and Colorado.

New York: West Point VI-12 (c); abundant on Long Island (Nicolay); Buffalo VII-20 (10).

Pennsylvania: Rockville VII-14 (10); Castle Rock (8); Lehighton VI-28 (c).

New Jersey: Hoboken (4); Westville (8); Malaga (8).

Vermont, Wisconsin, Massachusetts.

West Virginia: White Sulphur VI-27 (c); Cairo (10); Kanawha (10).
Virginia: Pennington Gap IV-7 (10); Arlington, July (10); Gt. Falls, July (10).
Washington, D. C. VIII-10 (10). Plummers Island, Md. VIII-28 (10).
North Carolina: South Pnies (8); Tyron, Aug. (10); Blantyse (10).
Florida: Havlane III-10 (10); Enterprise (10); Montecello XII-4 (10).
Texas: New Braunfels (16).
Michigan: Pt. Huron, June (10).
Iowa: Iowa City (W); Ames (W).
Oregon:: Corvallis (c).
Hosts: Blue beach *(Carpinus caroliniana)*, alder *(Alnus rugosa)*, and various species of Hickory.

MACULOSA Gory, See LEPIDA Leconte

MANCA Leconte, See TUBERCULATA Chevrolot

MONTANA Casey, See TENEBROSA Kirby

MOLITOR Melsheimer, See SPRETA Gory

MORIO Casey, See TENEBROSA Kirby

325. MUTICA Lec. (9350)

1859 Leconte p. 196.
1873 Crotch p. 85.
1892 Kerremans p. 88.
1902 Kerremans p. 132.
1909 Smith p. 292.
1909 Casey p. 165.
1919 Nicolay p. 18.

NOTE—Species known only by type, said to have been taken in a lumber yard in Brooklyn, N. Y. Type in the Leconte collection.

MYSTICA Casey, See TENEBROSA Kirby

NIGRA Casey, See CAUDATA Leconte

326. OBSCURA Fabricii (9341)

1781 *Buprestis* Fabricii p. 274 No. 9.
1787 *Buprestis* Fabricii p. 176 No. 10.
1788 Linne p. 1927 No. 40.
1790 *Buprestis* Oliver gen. 32 p. 20 pl. 8 fig. 83.
1792 *Buprestis* Fabricii p. 190
1801 *Buprestis* Fabricii p. 190.
1801 *Buprestis* Herbst p. 96 No. 52 pl. 143 fig. 5.
1801 *Buprestis baltimorensis* Herb. p. 99 pl. 148 fig. 7.
1805 Illiger p. 86 No. 25.

1817 *Buprestis* Schonherr p. 219, 127.
1817 *baltimorensis* Schonherr p. 219.
1836 Say p. 158.
1837 Laporte-Gory I p. 106 pl. 27 fig. 144.
1841 *Buprestis consimilis* Gory IV p. 109.
1841 *B.pruinosa* Gory IV p. 109 pl. 19 fig. 106.
1843 Strum p. 59.
1848 White p. 20.
1857 *B. baltimorensis* Herbst=*B. obscura* (Fab.) L. G., Leconte p. 7.
1857 *Poecilionata baltimorensis* Lacordaire p. 36.
1857 *B. pruinosa* Gory, Leconte p. 8.
1859 Leconte p. 196.
1859 *soror* Leconte p. 197.
1873 Crotch p. 85.
1873 *soror* Leconte=*obscura* Fab., Crotch p. 85.
1873 *lurida* Fab.=*obscura* Fab., Crotch p. 85.
1873 *baltimorensis* Herbst=*obscura* Fab., Crotch p. 85.
1873 *consimilis* L.-G.=*obscura* Lec., Leconte p. 331.
1873 *D. obscura* Gory=*baltimorensis* Hbst,. Leconte p. 331.
1877 Provancher p. 349.
1878 Glover pl. XI fig. 11.
1878 *obscura* Fab., Glover pl. XI fig. 11.
1878 *baltimorensis* Herbst, Glover pl. XI fig. 11.
1878 Schwarz p. 451.
1878 Hubbard-Schwarz p. 655.
1880 Zesch-Reinecke VII.
1883 Leconte p. 591.
1884 Townsend p. 221.
1886 Hansen p. 78.
1888 Hamilton p. 65.
1890 Packard p. 442.
1892 Townsend p. 39.
1892 Kerremans p. 88.
1893 Hopkins p. 181.
1901 Scott p. 31.
1902 Ulke p. 21.
1903 Kerremans p. 131.
1903 *consimilis* L.-G., Kerremans p. 131.
1903 *lurida* Fab., Kerremans p. 131
1903 *baltimorensis* Herbst, Kerremans p. 131.
1903 *indistincta* Mels., Kerremans p. 131.
1903 *prinosa* Gory, Kerremans p. 131.
1903 *soror* Lec., Kerremans p. 131.
1904 Hopkins p. 38.
1906 Felt p. 427, 442, 499, 500.
1908 McAtee p. 44.
1909 Smith p. 292.
1909 Blatchley p. 782.
1909 Wickham p. 23.
1909 Casey p. 131.
1909 *floridae* Casey p. 134.
1909 *soror* Lec., Casey p. 134.
1909 *ruglaris* Casey p. 134.
1909 *sagax* Casey p. 133.
1909 *indurata* Casey p. 131.
1909 *porcatula* Casey p. 133.
1911 Watson p. 99.
1912 Beal p. 16.
1913 Manee p. 167.
1915 Kwiat p. 237.
1915 Robinson p. 151.
1915 Chagnon p. 217.
1917 Burke p. 326.
1918 Dozier p. 331.
1920 Knull p. 5.
1920 Britton p. 243.
1921 Kalmbach p. 61.
1922 Knull p. 80.
1924 Chamberlin p. 185.
1924 Felt p. 183.

Type locality:
Distribution:: Montreal to Florida, west to the Pacific Coast States.
Illinois: Edgebrook VIII-7 (9).
North Carolina: Blue Ridge (1); Black Mts. (9); Tyron, April (10).
Virginia: Nelson County VI-22 (c); Falls Ch., August (10); Shipman (10); Va. Beach (10). West Virginia.
Georgia: Clayton (4) 2000-3000 ft.
New Mexico: Near Albuquerque.
New Jersey: June, Ft. Lee VII-10 (4); Newfoundland VII (4); Westville (8).
Iowa: Ames (W); Iowa City (W); Burlington (W).
California: Chico (Burke).
Texas: Carmal County (1).
Alabama: Mobile VI-16 (10).
Washington, D. C.: (10).
New York: N. Y. City, July (4); Buffalo (1).
Florida: Lakeland V-7 (4); Crescent City (10); Capron IV-8 (10).
Louisiana: Vowell's Mills (4); Covington IV-6 (10).
Ontario: Redeau Lake VII-10 (9).
Montreal: Nov. (10).
Host: Persimmon *(Diospyros virginiana)*, Oregon ash *(Fraxinus oregonia)*, hickory *(Hickoria sp.)*, maple *(Acer sp.)*, white oak *(Quercus alba)*, and sumach *(Rhus typhina)*.
Season: April-September.

327. PECTEROSA Leconte (9338)

1857 Leconte p. 45.
1859 Leconte p. 203.
1873 Crotch p. 86.
1892 Kerremans p. 88.
1901 Fall p. 116.
1902 Kerremans p. 132.
1908 Gibson p. 126.
1909 Casey p. 165.
1913 Woodworth p. 196.
1917 Chamberlin p. 130.
1920 Chamberlin p. 244.
1920 Chamberlin p. 106-108.
1923 Lovett & Barss p. 6.
1924 Chamberlin p. 185.
1924 Van Dyke p. 18.

Type locality:: Oregon.
Distribution: Rocky Mountains and Pacific Coast States.
California: Los Angeles County (5); Acton (5); Los Gatos (10); Shasta (10); Mt. Wilson (13); Miami (13); Cole (13); Lake Tahoe (15).
Idaho: Atlanta (4); Cascade (c).
Utah: Wasatch 6-27 (10).
Nevada: Esmeralde County (9).
Oregon: Corvallis (c); Roseburg (c); The Dalles (c); Rogue River (c); Sumpter (c); Sparta (c); Oregon City (c); Klamath Falls (c);

Warner Canyon (c); Albany (c); Hood River (10).
Host: Peach *(Amygdalus persica)*, Prune *(Prunus domestica)*.

PERTINAX Casey, See DIVIRICATA Say

PINORUM Casey, See PUNCTULATA Schonherr

PISCIFORMIS Casey, See DIVARICATA Leconte

PORCATULA Casey, See OBSCURA Fabricii

328. PROLONGATA Leconte (9335)

1837**Stenuris tenebrica* Kirby p. 155.
1848 *tenebrica* Kby., White p. 20.
1857 *tenebrica* Kby., Lacordaire p. 36.
1859 Leconte p. 194.
1872 *S. tenebrica* Kby., Bethune p. 32.
1873 Crotch p. 84.
1877 Packard p. 589, 810.
1878 Glover pl. XLII fig. 11.
1878 Hubbard-Schwarz p. 636.
1878 Leconte p. 472.
1888 Cockerell p. 58.
1888 Hamilton p. 64; p. 120.
1888 Cockerell p. 178.
1889 Hamilton p. 105.
1889 Blanchard p. 29.
1890 Harirngton p. 159.
1892 *prolongata* Lec. = *divaricata* Say, Kerremans p. 88.
1893 Cockerell p. 328.
1895 Evans p. 146.
1898 Cockerell p. 152.
1900 Holland p. 422.
1902 *tenebrica* Kby., Kerremans p. 131.
1903 Evans p. 291.
1906 Felt p. 746.
1907 Fall-Cockerell p. 179.
1909 Wickham p. 23.
1909 Casey p. 149.
1909 *subargentia* Casey p. 148.
1909 *tenebrica* Kby., Casey p. 149.
1909 *severa* Casey p. 149.
1909 *longipennis* Casey p. 149-150.
1909 *angusticauda* Casey p. 148.
1909 *callosa* Casey p. 150.
1909 *tetrica* Casy p. 151.
1909 *rigida* Casey p. 151-150.
1911 Watson p. 108.
1913 Woodworth p. 196.
1917 Burke pl. IV fig. 1.
1917bBurke p. 326.
1917 Nicolay p. 92.
1917 Chagnon p. 217.
1917 Chamberlin p. 129.
1919 Swaine p. 13e.
1920 Knull p. 5.
1920 Hofer p. 10.
1920 Britton p. 243.
1922 Knull p. 80.
1924 Van Dyke p. 18.
1924 Hatch p. 571.
1924 Chamberlin p. 185.

Type locality: Lake Superior Region.
Distribution: Alaska to California and New Mexico, New England

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*See footnote page 197, under *tenebrica* Kirby.

States to Carolina.
Canada: Gt. Slave Lake VI-3 (Anderson); Smith's Landing, B. C. VI-5 (Anderson); Subury, Ont. (4); Telegraph Creek, B. C. (c); Golden, B. C., (4); Redvers, Sask. (c); Ft. Chipewyan, Alta. (Swaine); Vernon, B. C.
Alaska: Ft. Yukon (10).
Montana: Bitter Root Mts. (10).
Utah: Park City VII-8 (10); Kamas, Aug. (10).
Michigan: Marquette VII-8 (10).
Wisconsin: (16).
Pennsylvania: Charter Oak (Knull).
Minnesota: Duluth (4).
Illinois: Willow Springs VI-30 (c).
Iowa: Iowa City (W); Ames VII-11 (c).
Arizona:: Williams (10).
South Dakota: Englewood, Aug. (10).
New Mexico: Near Albuquerque (Watson).
Colorado: Manitou (10); West Cliff (Cockerell).
Idaho: Cascade VI-16 (c); McCall VI-22.
Oregon: Corvallis 7-1 (c); Ochoco Nat. Forest VI-26 (c); Klamath Indian Res., Aug. (c); Sparta, June (c); Stein Mountains, common, June (c).
California: Placerville, July (c); Strawberry, July (c); Phillips Station, July 1-4 (c).
Host: Black cottonwood *(Populus trichocarpa)*, Aspen *(P. tremuloides)*, Willow *(Salix sp.)*, and large-toothed Aspen *(P. grandidentata)*.

PRUINOSA Gory, See OBSCURA Fabricii

329. PUGIONATA Germ. (9340)

1824 *Buprestis* Germar p. 37 No. 61.
1859 Leconte p. 196.
1868 Horn p. 124.
1873 Crotch p. 85.
1884 Lugger p. 203.
1889 Chittenden p. 219.
1889 Blanchard p. 30.
1890 Harrington p. 159.
1892 Kerremans p. 88.
1895 Hamilton p. 364.
1902 Ulke p. 21.
1903 Kerremans p. 131.
1906 Felt p. 750.
1909 Blatchley p. 781.
1909 Smith p. 292.
1909 Casey p. 138.
1913 Manee p. 167.
1920 Frost p. 29.
1920 Britton p. 243.
1920 Knull p. 5.
1925 Champlain & Knull p. 113.

Type locality:
Distribution: Southeastern Canada and Northeastern United States.
Massachusetts: Shelborn 5/16 9/27 (14).

New York: Ithaca (16); West Point 5/24 (c).
New Jersey: Hemlock Falls 10/11 (9); Hewitt (c).
Maryland::
District of Columbia: Washington 6/6 (10).
Pennsylvania: Water Gap (9); Darby (8); Alleghany (10); Chambersburg (Knull); Philadelphia 6/10 8/27 (9); Manada Gap VII-19 (Knull).
Canada: Ontario.
Hosts: White oak *(Quercus alba)*, Black alder *(Alnus incana)*, Spirea *(Spiraea apulsfolia)*, and witch-hazel *(Hamamelis virginiana)*, ninebark *(Opulaster apulifolius)*.

330. PUNCTULATA Schonherr (9337)

1817 *Buprestis* Schonherr (p. 252 No. 203) Appen. p. 123 No. 170.
1825 *B. transversa* Say p. 249
1826 Sturm p. 15.
1837 *sylvatica* Dejean p. 87.
1841 *spreta* Gory IV p. 108 pl. 19 fig. 105.
1941 Laporte-Gory II p. 99 pl. 25 fig. 134.
1844 Melsheimer p. 145.
1844 *B. transversa* Say, Melsheimer p. 145.
1844 *molitor* Melsheimer p. 144.
1857 *B. transversa* Say = *punctulata* Scho., L.-G., Leconte p. 7.
1859 Leconte p. 201.
1869 Glover p. 91.
1870 Pettit p. 102.
1873 Crotch p. 86.
1878 Glover pl. XI fig. 12.
1880 Zesch-Reinecke p. VII.
1882 Bowditch p. 27.
1883 *B. transversa* Leconte p. 386.
1889 Blanchard p. 30.
1889 Chittenden p. 217,219.
1890 Packard p. 684.
1899 Hopkins p. 436.
1902 Ulke p. 21.
1903 Kerremans p. 131.
1903 *transversa* Say, Kerremans p. 131.
1906 Felt p. 648, 656.
1909 Smith p. 292.
1909 Casey p. 154.
1909 *pinorum* Casey p. 154.
1912 Grossbeck p. 135.
1913 *pinorum* Casey, Manee p. 168.
1915 Frost p. 142.
1917 Nicolay p. 92.
1918 Dozier p. 331.
1920 Knull p. 5.
1920 Britton p. 244.
1922 Knull p. 80.

Type locality:: Georgia.
Distribution: From Massachusetts to Georgia, west to Indiana and Michigan.
New York: Astoria, L. I. (4); Ithaca (4); Kamas, Aug. (4); Peekskill (7); West Point VI-7 (c); common on Long Island, May-September.
Massachusetts: Brookline (4).
New Hampshire: Webster, May (10).

Pennsylvania: Hummelstown (20). All parts of the state (Knull).
New Jersey: Lakehurst V-29 (4); Westville, May (8); Anglesea V (8); Malaga V (8).
North Carolina: Tyron, April (10); South Pines, Dec. 30 (c).
Washington, D. C.: (10).
Florida: Gainsville (Dozier).
Virginia: Newport News (10).
West Virginia: Tibbs Run (Hopkins).
Indiana: Millers VIII-1 (c).
Host: White pine *(Pinus strobus)*, pitch pine *(P. rigida)*, loblolly pine *(P. tedea)*, short-leaf pine *(P. echinata)*.

PURUMPUNCTATA Mels., See DIVARICATA Say

RIGIDA Casey, See PROLONGATA Leconte

RUGULARIS Casey, See OBSCURA Fabricii

RUSTICA Casey, See DIVIRICATA Say

SAGAX Casey, See OBSCURA Fab.

SALEBROSA Dejean

(Dejean 1873 p. 87. Said to equal *tuberculata* Chev.).

SCOBINA Chev., See SPRETA Gory

SERIATA Casey, See LURIDA Fabricii

SEVERA Casey, See DIVIRICATA Say

331. SEXUALIS Crotch (9336)

1873 Crotch p. 87.
1878 Leconte p. 472.
1892 Kerremans p. 89.
1898 Cockerell p. 152.
1903 Kerremans p. 131.
1906 Fletcher p. 100.
1907 Fall-Cockerell p. 179.
1909 Casey p. 162.
1913 Gibson p. 126.
1913 Woodworth p. 196.
1914 Gibson p. 116.
1917 Chamberlin p. 130.
1924 Chamberlin p. 185.

Type locality: Oregon.
Distribution: British Columbia to California and New Mexico.
British Columbia: Quamechan Lake, April.
Washington: Seattle (3); Tacoma (13).
Oregon: Dilly (4); Rainier IV-24 (c); Astoria VI (c); Detroit VI, VIII (c); Corvallis VIII-11 (c); Linn County, June (c); Forest Grove V-8 (c).

California: Fresno County (16); McCloud, June (16); Weed, Aug. (c); Castle Rock VII-VIII (c).
Idaho: Moscow.
Host: Douglas fir *(Pseudotsuga taxifolia)*, yellow pine? *(Pinus ponderosa)*, knobcone pine? *(P. attenuata)*.

SOROR Leconte, See OBSCURA Fab.

SPRETA Leconte, See ASPERATA Laporte-Gory

332. SPRETA Gory (9344)

1841 Gory IV p. 108 pl. 19 fig. 105.
1844 *impressifrons* Melsheimer p. 144.
1844 *molitor* Melsheimer p. 144.
1857 *impressifrons* Mels. = *spreta* Gory, Leconte p. 7.
1857 *molitor* Lecordaire p. 36.
1859 *asperata* Leconte p. 198.
1859 *spreta* Leconte = *asperata* Gory, Leconte p. 198.
1870 Pettit p. 102.
1873 *spreta* of Lec.=*asperata* of Gory, Crotch p. 85.
1873 *asperata* of Lec. is *spreta* of Gory, Crotch p. 85.
1873 Crotch p. 85.
1873 *coryphaea* Dep.=*spreta* Gory, Leconte p. 331.
1873 *molitor* Mels.= *spreta* Gory, Leconte p. 331.
1873 *impressifrons* Mels. = *spreta* Gory, Leconte p. 331.
1873 *scobina* Chev.=*molitor* Mels., Leconte p. 331.
1878 *spreta* (*molitor* female) Glover pl. XI fig. 8.
1878 *molitor* female (*spreta* male) pl. XI fig. 13.
1880 Zesch-Reinecke p. VII.
1888 Hamilton p. 65.
1895 Hamilton p. 364.
1902 Ulke p. 21.
1903 Kerremans p. 132.
1903 *impressifrons* Mels., Kerremans p. 132.
1909 Blatchley p. 782.
1909 Smith p. 292.
1909 *scobina* Chev., Casey p. 164.
1920 *scobina* Chev., Knull p. 5.
1922 *scobina* Knull p. 80.

Type locality: Boreal America.
Distribution: Ontario to North Carolina, west to Indiana and Iowa.
Pennsylvania: State College VIII-5 (20); Hummelstown III-24 (20).
Alabama: Mobile (1); Spring Hill X-29 (c); Kentucky, Illinois.
Georgia: Augusta, June (3); Maryland; Texas (17); Florida (17); North Carolina (17); New Orleans, La. (10); Buffalo, N. Y. (c); Ames, Ia. (c); Philadelphia, Pa. (8); Delaware (8).
Host: Sour gum *(Nyssa sylvatica)*.

STOLIDA Casey, See TENEBROSA Kirby

SUBAEQUALIS Casey, See CAUDATA Leconte

SUBARGENTEA Casey, See DIVIRICATA Say

SUBCUPREA Casey, See DIVIRICATA Say

SULCATULA Casey, See DIVIRICATA Say

*TENEBRICA Kirby, See PROLONGATA Leconte

333. TENEBROSA Kirby (9345)

1837 *Buprestis (Stenuris)* Kirby p. 155.
1848 White p. 19.
1850 Leconte p. 227.
1850 *lacustris* Leconte p. 227.
1850 *lugubris* Leconte p. 227.
1850 *bifoveata* Leconte p. 227.
1857 Lacordaire p. 36.
1857 *crossicollis* Leconte p. 45.
1859 Leconte p. 199.
1859 *lugubris* Leconte p. 200.
1859 *lacustris* Leconte p. 202.
1859 *bifoveata* Leconte p. 202.
1859 *crossicollis* Leconte p. 202.
1870 Pettit p. 102.
1871 Saunders p. 36.
1871 Bethune p. 230.
1872 Bethune p. 31.
1873 Crotch p. 86.
1873 *californica* Crotch p. 87.
1873 *crossicollis* Lec. = *tenebrosa* Kby., Crotch p. 86.
1873 *bifoveata* Lec.=female *tenebrosa* Kby., Crotch p. 86.
1877 Provancher p. 348.
1878 Hubbard-Schwarz p. 636.
1881 Harrington p. 30.
1882 Leconte list II and VI.
1884 Saunders p. 54.
1885 Harrington p. 30.
1888 Holland p. 91.
1889 Blanchard p. 30.
1890 Harrington p. 159.
1890 Packard p. 684.
1895 Evans p. 146.
1895 Daggett p. 314.
1896 Bowditch p. 6.
1900 Holland p. 422.
1901 *californica* Cr., Fall p. 115.
1902 McGillivary-Houghton p. 251.
1902 *californica* Cr., Van Dyke p. 172.
1903 Kerremans p. 132.
1903 *chrysea* Mels., Kerremans p. 132.
1903 *crossicollis* Lec., Kerremans p. 132.
1903 *lugubris* Lec., Kerremans p. 132.
1903 *bifoveata* Lec., Kerremans p. 132.
1903 *lacustris* Lec., Kerremans p. 132.
1903 *californica* Cr., Kerremans p. 132.
1906 Felt p. 648, 657.
1909 Casey p. 155.
1909 *mario* Casey p. 155.
1909 *californica* Cr., Casey p. 162.
1908 *bifoveata* Lec., Casey p. 159.

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*The type of *tenebrica* seems to have been lost. The species has been repeatedly referred to as a synonym of *divaricata*, but from the description would seem much nearer *prolongata*. If the latter be true *tenebrica* Kirby has priority by several years and the well known name *prolongata* Lec. will have to be suppressed.

1909 *stelida* Casey p. 161.
1909 *austera* Casey p. 157.
1909 *mystica* Casey p. 159.
1909 *montana* Casey p. 160.
1909 *hesperica* Casey p. 155.
1909 *crossicollis* Lec., Casey p. 166.
1909 *acerba* Casey p. 158.
1911 Gibson p. 12.
1912 Frost p. 305.
1912 Gibson p. 100.
1913 *californica* Cr., Woodworth p. 196.
1914 Casey p. 155.
1914 *hesperica* Casey = *crassicollis* Lec., Casey p. 155.
1915 Gibson p. 137.
1917 variety *chrysea* Nicolay p. 92.
1917 Chagnon p. 217.
1917 Chamberlin p. 130.
1919 Morris p. 50.
1920 Britton p. 244.
1922 Knull p. 80.
1924 Mundinger p. 315.
1924 Chamberlin p. 185.
1924 Van Dyke p. 18.

Type locality: Latitude 54° Rocky Mountains.

Distribution: Alaska to California, east to the New England States.

Canada: Telegraph Cr., B. C. (4); Ft. Williams, Ont. (4); Calandar, Ont. (8); Oweme, Aug. (Criddle); Dawson, Gainsville Ferry, Field, B. C. VII-6 (17).

Wisconsin: Bayfield (4).

Michigan: White Fish Pt. (10); Isl. Royal, L. S. (10); Marquette VI-27, VIII-7 (17).

Maine: Cumberland County (4).

Minnesota: Duluth (10); Waldo, Aug. (17).

Alaska: Fort Yukon, Salmon River (c).

California: Placerville VIII-14 (10); Yosemite (10); San Bernardino Mts. (10); Echo Mt. (5); Mt. Wilson (5); Los Angeles (10); Sonoma County (16).

Washington: Tacoma (10).

Oregon: Haines (10); Hideaway VII-24 (10); Dilly (8); Klamath Falls VI-10 (c);; Sumpter, July (c); Sparta, Aug. (c); Detroit V and VIII (c); Corvallis VIII (c); Gold Center, June-JuJly (c).

Colorado: Waterloo Canyon (10).

Idaho: Centerville VI-2 (10); Grimes Pass (10); Moscow (10; Cascade VI-16 (c); Wallace (c); Coeur d'Alene (Evendon).

Montana: Pine Grove (10).

Wyoming: Cheyenne Canyon VII-18 (10).

Host: Northern white cedar *(Thuja occidentalis)*, white pine *(Pinus strobus)*, yellow pine *(P. ponderosa)*, lodgepole pine *(P. contorta)*, white fir *(Abies concolor)*, spruce *(Picea sp.)*, lovely fir *(Abies magnifica)*, Douglas fir *(Pseudotsugae taxifolia)*.

TETRICA Casey, See PROLONGATA Leconte

TRANSVERSA Say, See PUNCTULATA Schonherr

TRUNCATA Casey, See LURIDA Fabricii

334. TUBERCULATA Laporte-Gory (9349)

1837 Laporte-Gory I p. 99 pl. 25 fig. 135.
1838 *Buprestis* Chevrolat V p. 65.
1838 *B. scobina* Chevrolat p. 66
1837 *B. dumolini* Laporte-Gory I p. 98 pl. 25 fig. 133.
1837 *asperata* Laporte-Gory I p. 105 pl. 27 fig. 143.
1844 *consobrina* Melsheimer p. 145.
1844 *molitor* Melsheimer p. 144.
1848 White p. 19.
1857 Fitch p. 706.
1857 *B. scobina* Chev.=*tuberculata* L.-G., Leconte p. 7.
1859 Leconte p. 201.
1859 *hilaris* Leconte p. 200.
1859 *manca* Leconte p. 201.
1867 Chevrolat p. 577.
1870 *manca* Lec., Pettit p. 102.
1873 *manca* Lec., Crotch p. 86.
1873 Crotch p. 86.
1873 *hilaris* Lec.=(female) *manca* Lec., Crotch p. 86.
1873 *hilaris* Lec.=*tuberculata* (female) Chev., Leconte p. 331
1873 *manca* Lec.=*tuberculata* (male) Chev., Leconte p.' 331.
1873 *dumolinii* Gory = *tuberculata* Chev., Leconte p. 331.
1877 Provancher p. 349.
1878 *manca* Hubbard-Schwarz p. 636.
1878 Glover plate 38 fig. 28.
1880 *manca* Zesch-Reinecke p. VII.
1889 *manca* Lintner p. 286.
1889 Blanchard p. 30.
1890 Packard p. 684.
1893 Gundlach p. 159.
1893 Hamilton p. 274.
1895 Evans p. 146.
1895 Hamilton p. 364.
1903 Kerremans p. 132.
1903 *dumolini* C.-G., Kerremans p. 132.
1903 *tuberculata* Chev. = *dumolini* C.-G., Kerremans p. 132.
1903 *consobrina* Mels.=*dumolini* C.-G., Kerremans p. 132.
1903 *asperata* C.-G., *scobina* Chev., *molitor* Mels., *hilaris* Lec., and *manca* Lec.=*tuberculata* C.-G., Kerremans p. 132.
1909 Casey p. 157.
1909 *distinguenda* L.-G., Casey p. 157.
1909 *dumolini* L.-G., Casey p. 157.
1909 *hilaris* Lec., Casey p. 157.
1912 Frost p. 305.
1914 Leng-Mutchler p. 430.
1919 Nicolay p. 17.
1920 Frost p. 232.
1922 Knull p. 80.
1925 Fisher pp. 130-131.

Type locality: Boston?, Mass.
Distribution: Ontario to Florida, and Cuba.
Canada: Ontario (Sparrow Lake).
Vermont:
New York: Bellport 6/5, Huntington 9/5, Jamaica, L. I.
New Hampshire:
Maine: (Wales, July (14)).

Massachusetts: Framingham, June (14).
Connecticut:
Pennsylvania: Hummelstown, Charter Oak, Montebello (Knull).
Florida, Louisiana, Virginia, Georgia.
Cuba: (4).
Hosts: *(Abies balsamea)* and *(Tsuga canadensis)*.
Season: July and August.

VANCOUVERI Casey, See TENEBROSA Kirby

WICKHAMI Casey, See CHRYSEA Melsheimer

Genus *DYSTAXIA* Lec.

1866 Leconte p. 385.
Type of the genus **DYSTAXIA MURRAYI** Leconte.

335. ELEGANS Fall (9300)

1905 Fall p. 71.
1907 Kerremans p. 589.

Typel ocality: San Diego, California.
Distribution: SouthernC alifornia (San Diego, July).
Southern California: San Diego VII (c); Santa Cruz Mts. (10); San Mateo (16).

LECONTEI Thompson, See MURRAYI Leconte

336. MURRAYI Lec. (9299)

1866 Leconte p. 385.
1879 *lecontei* Thompson p. 6.
1885 Horn p. 146.
1891 *lecontei* Thom.=*murrayi* Lec., Horn p. 45.
1892 Kerremans p. 101.
1901 Fall p. 118.
1902 *lecontei* Thom.=*murayi* Lec., Kerermans p. 43.
1905 Fall p. 71.
1907 Kerremans p. 588.
1913 Woodworth p. 196.
1925 Good p. 272 fig. 42.

Type locality: "San Diego Region," California.
Distribution: Southern California.
Southern California: Los Angeles (1); Lancaster (15) Banning; San Bernardino Co.; Kernville (13); Bartlett Springs VI (13); Calienti VII (16); Santa Cruz Mts. (17).
Host: Taken on California live oak *)Quercus agrifolia)*, and bur oak *(Q. macrocarpa)*.

Genus *ENGYAULUS* Water.

1889 Waterhouse p. 50.
Type of the genus **AGRILUS PULCHELLUS** Bland.

337. PULCHELLUS Bland (9486)

1864 *Agrilus pulchellus* Bland p. 382.
1873 *Agrilus* Crotch p. 93.
1873 *Agrilus* Leconte p. 333.
1874 *Agrilus* LeBaron p. 96.
1889 Waterhouse p. 50 pl 4 fig. 9 a. b.
1891 *Agrilus* Horn p. 312.
1892 Kerermans p. 243.
1894 *Agrilus* Horn p. 378.
1896 *Agrilus* Wolcott p. 236.
1900 Chittenden p. 68.
1903 Kerremans p. 263.
1905 Schaeffer p. 150.
1907 Fall-Cockerell p. 180.
1920 Frost & Weiss p. 210.
1925 Good p. 272 fig. 39.

Type locality: Colorado.
Distribution: Colorado, New Mexico, Arizona, Texas and Mexico.
Colorado: Lectotype "Colo." (17); Ft. Collins VII-16 (1).
Texas: Brownsville VIII-14 (1).
Mexico: Sonora.
Arizona: Huachuca Mts. VII-5 (1); Nogalis IX-13 (16); Reef, Cochise Co. IV (17).
Host: Breeds in the roots of *Erigeron sp.*

Genus *EUPRISTOCERUS* Deyr.

1864 Deyrolle p. 113.
Type of the genus **BUPRESTIS COGITANS** Web.

338. COGITANS Web. (9485)

1801 *Buprestis cogitans* Weber p. 75.
1801 *Buprestis ignarus* Fabricii p. 211.
1801 *B. ruficollis* Herbst p. 239 pl. 155 fig. 9a-b.
1802 *Buprestis* Illiger p. 248.
1817 *Agrilus* Schonherr p. 255.
1836 *Agrilus* Say p. 164.
1840 *Buprestis* Erichson p. 240.
1841 *Eumerus ignarus* Laporte-Gory II p. 4 pl. I fig. 5.
1857 *Buprestis* Lacordaire p. 81.
1857 *E. ignarus* L.-G.=*B. cogitans* Web., Leconte p. 7.
1859 *caraebus* Leconte p. 241.
1877 Provancher p. 313 (Separate p. 13).
1878 Glover plate 33 fig. 34.
1883 *Rhaebascelis* Leconte p. 598.
1889 Blanchard p. 32.
1889 Chittenden p. 221.
1892 Kerremans p. 230.
1895 Hamilton p. 364.
1902 Ulke p. 21, 47.
1903 *B. ruficollis* Hbst.=*E. cogitans* Web., Kerremans p. 246.
1906 Felt p. 750.
1909 Smith p. 294.
1909 Easton p. 50.
1912 Frost p. 306.
1912 Gibson p. 14.
1913 Gibson p. 126.
1913 Manee p. 169.
1917aBurke plate VI fig. 1.

1917 Chagnon p. 219.
1919 Nicolay p. 19.
1920 Knull p. 7.
1920 Frost p. 27.
1920 Britton p. 244.
1922 Knull p. 83.
1925 Good p. 272 fig. 38.

Type locality: "Boreal America."
Distribution: Nova Scotia to North Carolina, west to Pennsylvania.
Maine: Monmouth VI-22-VII-14 (14).
Massachusetts: Sherborn VII-2 (14).
New Jersey: Spotswood VI-22 (4); Lakehurst VI-22 (4); Orange VI-1; Darby (8).
New York: Keene Valley, Essex Co. VII-19 (1); Stanton Island VII-4 (c).
Pennsylvania: Pittsburg VII-7 (3); Hummelstown (20).
Virginia: Charter Oak (10); Falls Church VI-26 (10).
Maryland:: Blandsburg VII-12 (10).
Kentucky: Livingston VII-16 (10).
Delaware: Claymont VI-27 (8).
Host: Black alder *(Alnus incana)*, and *(A. rugosa)*.

IGNARUS Fab., See COGITANS Weber

RUFICOLLIS Herbst, See COGITANS Weber

Genus *GLYPTOSCELIMORPHA* Horn

1893 Horn p. 137.
Type of the genus **GLYPTOSCELIMORPHA MARMORATA** Horn.

339. MARMORATA Horn (9298)

1893 Horn p. 137.
1901 Fall p. 118.
1903 Kerremans p. 42.
1905 Fall p. 72.
1907 Kerremans p. 585.
1913 Woodworth p. 196.
1925 Good p. 272 fig. 43.

Type locality: Los Angeles County, California (17).
Distributon: Southern California.
Southern California: Lancaster, Mojave Desert VII. Lectotype and Paratype, Los Angeles Co., Cal. (17).
Host: Unknown.

Genus *GYASCUTUS* Leconte

1858 Leconte p. 67.
Type of the genus **CHALCOPHORA PLANICOSTA** Leconte.

ACUTANGULUS Casey, See **PLANICOSTA** Leconte

AENEOVIRIDIS Casey, See **OBESUS** Casey

AERATA Casey, See **PLANICOSTA** Leconte

AMPLUS Casey, See **PLANICOSTA** Leconte

340. CAROLINENSIS Horn (9313)

1883 Horn p. 288.
1892 Kerremans p. 55.
1895 Townsend p. 43.
1895 Wickham p. 295.
1902 Kerremans p. 65.
1908 *Hippomelas* Kerremans p. 317
1909 Casey p. 66.
1925 Fisher p. 60.

Type locality: Wilmington, North Carolina (17).
Distribution: North Carolina.
Host: Unknown.

COMPACTUS Casey, See **OBESUS** Casey

CRIBRICEPS CaCsey, See **PLANICOSTA** Leconte

341. CUNEATUS Horn (9315)

1868 Horn p. 133.
1883 Horn p. 287.
1892 Kerremans p. 55.
1901 Fall p. 115.
1903 *Hippomelas* Kerremans p. 65.
1905 Wickham p. 168.
1908 *Hippomelas* Kerremans p. 318
1909 *prasinalia* Casey p. 59.
1909 *P.angusta* Casey p. 59.
1909 *P. metallica* Casey p. 59.

Type locality: California, Owens Valley.
Distribution: California, Arizona and Texas.
Florence, Arizona, April (8), VII-28 (C).

CYLINDRINUS Casey, See **OBESUS** Casey

DEBILIS Casey, See **OBESUS** Casey

EGREGIUS Casey, See **PLANICOSTA** Leconte

FIDELIS Casey, See **OBLITERATUS** Leconte

342. JUNIPERINUS Wickham (9311)

1905 Wickham p. 167.
1908 *Hippomelas* Kerremans p. 315
1909 Casey p. 68.

Type locality: Chadburn's Ranch (4500 ft), Pine Valley Mountains (22 miles from St. George), Utah.
Distribution: Utah.
Host: Beaten from juniper.
Season: July.

343. OBESUS Casey (9314)

1909 Casey p. 65.
1909 *cylindrinus* Casey p. 67.
1909 *debilis* Casey p. 67.
1909 *compactus* Casey p. 66.
1925 Fisher p. 60.

Type locality: Texas.
Distribution: Texas and Arizona.

344. OBLITERATUS Leconte (9312)

1858 *Chalcophora obliteratus* Leconte p. 66.
1859 Leconte p. 189.
1866 Horn p. 290.
1868 Horn p. 133.
1883 Horn p. 288.
1892 Kerremans p. 55.
1894 Horn p. 327.
1901 Fall p. 115.
1902 *Hippomelas* Kerremans p. 65.
1902 Van Dyke p. 173.
1904 Kunze p. 242.
1904 Wickham p. 307.
1905 Wickham p. 167.
1908 *Hippomelas* Kerremans p. 316
1909 Casey p. 65.
1909 *fidelis* Casey p. 65.
1925 *Hippomelas* Good p. 272 figs. 9-10.

Type locality: "San Diego Region," California.
Distribution: Southwestern States and Bajo California.
California: Banning VII-3 (15); San Bernardino, June (13); Owens Valley (15); Tulare (13); Azura (13); Palm Springs, April (13); Keeler VII-4 (13).
Arizona: Winslow (9); San Semon VI-27 (10); Hot Springs VI-25 (10); Tinajas 1900 ft (10); Phoenix (C).
New Mexico:
Utah: St. George (9).
Nevada: Moapa VI-31.
Texas: (c).
Lower California:
Host: Mesquite *(Prosopis juliflora)*. Reported from Willow *(Salix sp.)*.

PIMALICUS Casey, See PLANICOSTA Leconte

PISTORIUS Casey, See PLANICOSTA Leconte

345. PLANICOSTA Leconte (9310)

1858 *Chalcophora planicosta* Leconte p. 66.
1859 Leconte p. 189 pl. 12 fig. 1.
1868 Horn p. 133.
1889 Waterhouse p. 171.
1891 Duges p. 2.
1892 Kerremans p. 55.
1892 Townsend p. 38.
1895 Townsend p. 42.
1898 Cockerell p. 151.
1898 Wickham p. 296e.
1901 Fall p. 115.
1902 *Hippomelas* Kerremans p. 65.
1905 Wickham p. 167.
1907 Fall-Cockerell p. 179.
1908 *Hippomelas* Kerremans p. 314
1909 Casey p. 61.
1909 *pimalicus* Casey p. 63.
1909 *acutangulus* Casey p. 63.
1909 *snowi* Casey p. 62.
1909 *egregius* Casey p. 64.
1909 *cribriceps* Casey p. 62.
1909 *amplus* Casey p. 64.
1909 *pistorius* Casey p. 63.
1909 *aerata* Casey p. 64.
1913 Woodworth p. 196.

Type locality: "San Diego Region," California.
Distribution: California, Arizona (4000 ft.), New Mexico and Mexico (Durango and Sonora).
Los Angeles (10); Needles (10); Delta V-20 (C); Deming, N. M. (10).
Hosts: Mesquite *(Prosopis juliflora)*, and creosote bush *(Larrea mexicana)*.

SNOWI Casey, See PLANICOSTA Leconte

SOLIDUS Casey, See OBESUS Casey

TENUIS Casey, See OBESUS Casey

Genus *HALECIA* Laporte et Gory

1837 Laporte et Gory I p. 108.
Type of the genus BUPRESTIS BLANDA Fab.

346. TEXANA Kerremans

1909 Kerremans III p. 348 pl. 20 fig. 6.
Type locality: Texas.
Distribution: Texas.

NOTE—Known only by the type which is in the Kerremans collection. From the figure and description it may be a large specimen of *Agaeocera scintillans*. Kerremans may have been influenced by the fact that *A. scintillans* had not been taken in the United States at the time he wrote; it has since been taken in Sabine Canyon, Arizona, by Dr. Lutz.

Genus *HIPPOMELAS* Laporte & Gory

1837 Laporte et Gory I p. 92.
Type of the genus **BUPRESTIS SAGINATA** Mannerheim.

ANGUSTUS Casey, See CUNEATUS Horn

347. CAELATUS Leconte (9309)

1858 *Chalcophora caelatus* Leconte p. 67.
1859 *Gyascutus* Leconte p. 190.
1868 *Gyascutus* Horn p. 133.
1882 *Gyascutus* Waterhouses p. 7.
1883 Horn p. 288.
1889 *Gyascutus* Waterhouse p. 171.
1891 *Gyascutus* Duges p. 2.
1892 *Gyascutus* Kerremans p. 54.
1898 Wickham p. 305.
1903 *coelata* Kerremans p. 65.
1908 Heyne-Taschenberg p. 131.
1908 Kerremans p. 312.
1909 *Stictocera* Casey p. 69.
1909 *S. pollens* Casey p. 70.
1909 *S. laticornis* Casey p. 70.
1913 Woodworth p. 196.

Type locality:: Ures, Sonora, Mexico.
Distribution: Southwestern States, Mexico and Lower California.
Arizona: Cochise Co. 3750 ft. (c); Bill Williams Fork VIII (c); Phoenix V-9 (c); Ft. Huachuch IX-7 (7); Tucson Mts. VIII-29 (10); Bisbee (17); Santa Rita Mts. (W); Congress Jc. V-15, July (C); Prescott (C); *(S. laticornis)* Cas. Sabino Can. VI-12 on Palo verde (10).
Texas:
California:
Mexico: Ures, Sonora, Chihuahua.
Lower California.
Host: Palo verde *(Cercidium floridum)*.

348. CALIFORNICA Horn (9327)

1875 *Gyascutus californica* Horn p. 147.
1883 Horn p. 288.
1892 *Gyascutus* Kerremans p. 54.
1901 Fall p. 115.
1902 Van Dyke p. 173.
1903 Kerremans p. 65.
1908 Kerremans p. 314.
1909 *Nanularia* Casey p. 174.
1909 *N. cupreofusca* Casey p. 174.
1913 Woodworth p. 196.

Type locality: San Joaquin Valley, California.
Distribution: Southern California: Eldorado Co. (15); Banning VII (15); Poway, San Diego Co. (C); San Bernardino Co. (10).

CYLINDRICUS Casey, See SPHENICUS Leconte

GROSSUS Casey, See CAELATUS Leconte

CUPREFUSCA Casey (9326), See CALIFORNICA Horn

LATICORNIS Casey, See CAELATUS Leconte

METALLICUS Casey, See CUNEATUS Horn

PLANICAUDA Casey (9308), See SPHENICUS Leconte

ROBUSTUS Casey, See SPHENICUS Leconte

SERRULATUS Casey, See SPHENICUS Leconte

349. SPHENICUS Leconte (9307)

1854 *Buprestis sphenicus* Leconte p. 83.
1859 *Gyascutus* Leconte p. 190.
1866 *Gyascutus* Leconte p. 348.
1868 *Gyascutus* Horn p. 133.
1871 *Gyascutus* Saunders p. 22.
1883 Horn p. 288.
1889 Waterhouse p. 172.
1892 Kerremans p. 56.
1898 Wickham p. 304.
1900 Griffith p. 568.
1903 var. *sphenica* Lec., Kerremans p. 65.
1908 Kerremans p. 310.
1909 Casey p. 57.
1909 *cylindricus* Casey p. 58.
1909 *grossus* Casey p. 57.
1909 *planicauda* Casey p. 58.
1909 *serrulatus* Casey p. 57.
1909 *robustus* Casey p. 57.
1918 Garnette p. 142.

Type locality: Between Laredo and Ringold Barracks, Texas.
Distribution: Texas, California, Arizona, Lower California and Mexico
Arizona: Phoenix VII (C); Ft. Huachuca VII-12 (7); Hot Springs VII-9 (9); Sabino Can. IX (10); Tucson (10); St. Rita Mts. VIII-22 (10); Florence VII-26 (16).
Texas: San Diego X-27 (10); Del Rio Valverdo VIII-22, 1000 ft. (17).
California: Near Banning (Garnette).
Lower California: Santa Rosa (1).
Mexico: Coahuila, Alamar and Durango (Waterhouse).
Host: Mesquite *(Prosopis juliflora)*.
Season: July to October.

Genus *MASTOGENIUS* Solier

1851 Solier p. 507.
Type of the genus **MASTOGENIUS PARALELLUS** Sol.

350. CASTLEI C. & K.

1922 Champlain & Knull p. 145.
Type locality: Miami, Florida.
Distribution: Known only by the type.

351. IMPRESSIPENNIS Fall (9583)

1906 Fall p. 167
1918 Schaeffer p. 214, 239.
Type locality: El Taste, Lower California.
Distribution: Reported only from type locality.
Host: Unknown.

352. PUNCTICOLLIS Schaeffer (9582)

1918 Schaeffer p. 213.
Type locality: Huachuca Mountains, Arizona.
Distribution: Reported only from the type locality.
Host: Unknown.

353. ROBUSTUS Schaeffer (9581)

1904 Schaeffer p. 210.
1905 Schaeffer p. 148.
1906 Fall p. 167.
1918 Schaeffer p. 214.
Type locality: Palmerlee, Cochise Co., Arizona.
Distribution: Arizona: Huachuca Mts. (8); Palmerlee (16).
Host: Beaten from oak.

354. SUBCYANEUS Leconte (9584)

1859 *Haplostethus* Leconte p. 254.
1884 Lugger p. 203.
1892 Kerremans p. 280.
1903 Kerremans p. 332.
1904 Schaeffer p. 210.
1905 Schaeffer p. 149.
1906 Fall p. 167.
1909 Smith p. 249.
1918 Schaeffer p. 214.
1919 Nicolay p. 20.
1920 Britton p. 245.
1922 Knull p. 86.
1925 Good p. 272 fig. 49.

Type locality:
Distribution: New York to Florida, west to Illinois and Texas.
New York: Acqueduct, L. I. VII-14 (19); Jamaica, L. I. (19); New York City VII-(4).
Rhode Island: Cranston VII-22 (14)
Washington, D. C.: VI-24 (10).
New Jersey: Angelsea (8).

Pennsylvania: Pittsburg VI (c); Philadelphia, June-July (Wenzel).
Virginia: Va. Beach (10); Ft. Monroe V-26.
W. Virginia: Berkeley VI-24 (10); Harpers Ferry V-19 (10).
North Carolina: Red Knob VI-21 (10).
Louisiana: Opolousas IV-29 (8).
Florida: Archer (10).
Texas: Victoria III-21, IV-10 (10).
Georgia: St. Catalina Island IV-19 (10); St. Simon Island V (4).
Illinois: (4). Indiana.
Host: Bred from Hornbeam *(Ostrya virginiana)*, Lugger and Spanish oak *(Quercus digitata)* (10); beaten from oak and willow.

Genus *MELANOPHILA* Esch.

1829 Eschscholtz p. 9.
Type of the genus **M. APPENDICULATA (ACUMINATA).**
Apatura Laporte et Gory, 1838 Vol. 2 pp. 1-10.
Trochysteris Kirby, 1837 pp. 158-160.
Oxypteris Kirby, 1837 pp. 160-161.

355. ABIES Champ. & Knull

1923 Champlain & Knull p. 105 (a variety of *drummondi)*.
Type locality: Lake Opasatika, Quebec.
Distribution: Quebec and New Brunswick, June.
Host: *Abies balsamea.*

356. ACUMINATA DeGeer (9391)

1774 De Geer p. 133.
1788 Linne p. 1932.
1788 *acuta* Linne p. 1939 (Gemlin)
1790 Oliver p. 66 pl. 5 fig. 46.
1792 *appendiculata* Fabricii p. 210.
1799 *morio* Paykull p. 230.
1799 *B. appendiculata* Fab., Panzer Heft 68 p. 20.
1801 Fabricii p. 205.
1801 *appendiculata* Herbst p. 234 pl. 147 fig. 2.
1805 Illiger p. 92 No. 104.
1808 *B. appendiculata* Gyllenhal p. 451.
1817 *appendiculata* Schonherr p. 238 No. 126.
1823 *atropurpurea* Say p. 160.
1823 *B. longipes* Say p. 164.
1826 *appendiculata* Sturm p. 20.
1829 *appendiculata* Fab., Eschscholtz p. 8.
1832 *B. appendiculata* Fab., Gray p. 358.
1837 *immaculata* Mannerheim p. 8 pl. 2 fig. 14.
1837 *Apatura appendiculata* Laporte-Gory I p. 8 pl. 2 fig. 14.
1837 *A. decolorata* Laporte-Gory I p. 5 pl. 1 fig. 7.
1837 *Phaenops lingipes* Dejean p. 89.

1837 *Phaenops immaculata* Dejean p. 89.
1837 *B. gebleri* Dejean p. 89.
1837 *immeculata* Mannerheim p. 70.
1837 *P. immeculata* Dejean p. 89.
1837 *immeculata* Man.-Gory p. 75 pl. 13 fig. 72.
1837 *Oxypteris appendiculata* Kirby p. 160.
1837 *immaculata* Mannerheim p. 70.
1839 *Anthaxia pecchiolli* Laporte-Gory p. 33 pl. 18 fig. 46.
1841 Gory p. 74 pl. 13 fig. 72.
1841 Gory p. 75 pl. 13 fig. 74.
1848 *dicolorata* White p. 13.
1848 *appendiculata* White p. 13.
1850 *P. longipes* Leconte p. 227.
1850 *P. appendiculata* Leconte p. 227.
1850 *P. assimilis* Leconte p. 227.
1857 *longipes* Lacordaire p. 48.
1857 *immaculata* Lacordaire p. 48.
1857 *appendiculata* Lacordaire p. 48.
1857 Leconte p. 44.
1857 *A. appendiculata* L. & G.= *Buprestis longipes* Say, Leconte p. 7.
1857 *A. decolorata* L.-G.=*A. croceosignata* L.-G., Leconte p. 7.
1857 *rugata* Leconte p. 7.
1859 Leconte p. 212.
1860 *apendiculata* Motschulsky p. 108.
1860 *gebleri* Motschulsky p. 108.
1863 *appendiculata* Fab., Thompson p. 26.
1867 *longipes* Chevrolat p. 581.
1867 Chevrolat p. 581.
1870 *longipes* Pettit p. 102.
1871 *appendiculata* Bethune p. 230.
1872 *B. (Oxypteris) appendiculata* Bethune p. 34.
1874 Austin p. 269.
1877 *longipes* Provancher p. 354.
1878 *longipes* Hubbard-Schwarz p. 636, 656.
1878 *longipes* Glover pl. XI fig. 8, pl. XLII fig. 8.
1879 Leconte p. 504.
1880 *longipes* Zesch-Reinecke p. VII.
1882 Leconte List 1, 8 and 9.
1882 *appendiculata* Leconte List 10
1882 *longipes* Horn p. 103.
1883 *longipes* Harrington p. 60.
1883 *longipes* Harrington p. 37.
1885 *longipes* Rickesecker p. 97.
1888 Holland p. 92.
1889 *luogipes* Blanchard p. 30.
1889 *longipes* Hamilton p. 138.
1889 *immaculata* Hamilton p. 138.
1889 *appendiculata* Hamilton p. 138.
1890 Packard p. 827.
1890 Harrington p. 159.
1890 *longipes* Harrington p. 159.
1890 *appendiculata* Harrington p. 159.
1892 Kerremans p. 110.
1893 *longipes* Cockerell p. 329.
1894 *longipes* Chittenden p. 227.
1894 *longipes* Slosson p. 2.
1894 *appendiculata* Hamilton p. 29.
1894 *longipes* Harrington p. 15.
1895 Hamilton p. 364.
1895 *longipes* Evans p. 146.
1896 *longipes* Bowditch p. 6.
1896 Wolcott p. 236.
1898 *longipes* Wickham p. 305.
1898 *appendiculata* Cockerell p. 151.
1899 *longipes* Wickham pt. 7 p. 235
1900 *longipes* Holland p. 422.
1900 Fall p. 460.

1900 Pettit p. 41.
1901 Fall p. 116.
1902 *longipes* Young p. 157.
1902 Ulke p. 21.
1903 Kerremans p. 165.
1903 *actua* Linn, Kerremans p. 165
1903 *appendiculata* Fab., Kerremans p. 165.
1903 *longipes* Say, Kerremans p. 165.
1903 *immaculata* Say, Kerr. p. 165.
1903 *longipes* Evans p. 219.
1906 Felt p. 753.
1907 Fall-Cockerell p. 179.
1909 *longipes* Easton p. 50.
1909 *Wickham* p. 23.
1909 Smith p. 292.
1909 *appendiculata* Blatchley p. 786.
1910 Poppius p. 411.
1910 *appendiculata* Fab., Poppius p. 411.
1911 Gibson p. 12.
1912 Frost p. 305.
1914 Bush p. 59.
1914 Leng-Mutchler p. 430.
1914 *longipes* Leng-Mutchler p. 430
1917 Chagnon p. 218.
1917 Chamberlin p. 134.
1917 *longipes* Chamberlin p. 134.
1919 *autropurpurea* Say=*acuminata* DeG., Burke p. 107.
1919 Burke p. 106, 107.
1919 *longipes* Say=*acuminata* DeG., Burke p. 107.
1919 Swaine p. 12e.
1920 Britton p. 244.
1922 Knull p. 82.
1924 Van Dyke p. 22.
1924 Chamberlin p. 188.
1924 Hatch p. 571.
1924 Mundinger p. 315.
1925 Fisher p. 3.
1925 Fisher p. 173-175.

Type locality:: Europe.

Distribution: Atlantic to the Pacific, Alaska to Mexico, Cuba, Asia and Europe.

Alaska: Cape Nome IX; Eagle (17); Savoonski, Aug. 5 (Van Dyke).

Canada: British Columbia: Glacier (17); Nipigon, Ont. VII-21 (9). Manitoba (7); Saskatchewan VII-20 (17); Banff, Alb. VIII-16 (10); Urigava Bay, H. B. Terr. (10); Yukon Terr.. Sixty Mile River (Swaine); Stewart River (Swaine).

Washington: Pullman (3); Hoquiam (10); Tacoma (4); Spokane VI-31.

Oregon:: Common over the state (C).

California: Sylvania (4); Santa Monica (15); Weed (C); Los Angeles (10); Los Gatos (10).

Idaho: Fernwood XI-13-19 (C).

Colorado: Denver (4); Silverton (4); Boulder (10); Garland (Lec.); Leadville 11,000 ft. VII-10 (9); Greeley (4).

Montana: Brandon VI-13 (10); Helena VIII-19 (10); Glacier Park VIII-22 (9).

Wyoming: Big Horn Mts. IX-5 (10).

Arizona: Yuma V (4); Oricle VII-7 (4); Tucson VII-27 (10).

Idaho: Coeur d'Alene VI-15 (c); Moscow VI-2 (c).

New Mexico: Los Vegas VII-18 (10); Gallup (4).

South Dakota: Lead (10); Custer (10).
Iowa: Independence (W); Elmo (W); Forest City (W).
Michigan: Pt. Heron VI (10); Marquette VII-7 (10).
Wisconsin: Tomahawk Lake (10).
Minnesota: Duluth (7).
New York: Long Island (19).
Pennsylvania: Jannette (3); Pittsburg IX-22 (9).
Florida: Kissimmee (9); Pt. Orange (4).
Host: Yellow pine *(Pinus ponderosa)*, lodgepole pine *(P. murryana)*, W. White pine *(P. monticola)*, jack pine *(P. resinosa)*, engelmann spruce *(P. engelmanni)*, sitka spruce *(P. sitchensis)*, Western red cedar *(Thuja plicata)*, grand fir *(Abies grandis)*, Monterey cypress *(Cupressus macrocarpa)*.
Season: May to October.

ACTUA Linne, See ACUMINATA DeGeer

357. AENEOLA Mels. (9384)

1846 Melsheimer p. 146.
1846 *metallica* Melsheimer p. 146.
1857 Lacordaire p. 49.
1859 Leconte p. 214.
1878 Hubbard-Schwarz p. 636.
1882 Horn p. 106.
1889 Blanchard p. 31.
1902 Ulke p. 21.
1903 *metallica, aeneola* Keremans p. 165.
1906 Felt p. 751.
1909 Smith p. 292.
1909 Blatchley p. 786.
1917 Gibson p. 149.
1919 Burke p. 106, 108.
1922 Knull p. 82.

Type locality: Pennsylvania.
Distribution: New England States to Florida, west to Indiana.
(Reported from Peachland, British Columbia by Gibson (1912 p. 149), evidently an error in determination).
New Hampshire: White Face Mt. VI (4).
New York: Oakdale, L. I. VIII-8 (19); Bayshore, L. I. VII-3 (19); West Point VI-11 (c).
Pennsylvania: (17); Linglestown, Drumgold, June (Knull).
New Jersey: DeCosta VII-4 (8); Malaga VIII-4 (17); Jamesburg VII (4); Lakehurst VII (4).
Michigan: Marquette (10).
North Carolina: Tyron (10); So. Pines VII (Manee).
Virginia: Falls Church (10); Danevill VI-25 (10).
Maryland: Piney Point (10); Pennington Gap VII-11 (10).
West Virginia: Berkeley (10).
Washington, D. C.: VIII-8 (10).
Georgia: Stone Mt. (4); Cornelia VI.
Host: Sand pine *(Pinus verginiana)*.
Season: April to August.

APPENDICULATA Fab., See ACUMINATA DeGeer

APPENDICULATA Laporte-Gory, See LONGIPES Say

358. ATROPURPUREA* Say

1836 *Buprestis atropurpurea* Say p. 160.
1859 Leconte p. 213.
1866 Leconte p. 348.
1882 Horn p. 104.
1892 Kerremans p. 111.
1894 Hamilton p. 29.
1903 Kerremans p. 165.
1907 Fall-Cockerell p. 179.
1911 Gibson p. 12.
1912 Gibson p. 100.
1917 Chamberlin p. 134.
1919 *antropurpurea* Say=*acuminata* DeG., Burke p. 107.
1921 Nicolay p. 174.

Type locality: Texas.

Distribution: This species is reported from Alaska to Mexico, east to Kansas. The exact range is doubtful since *atropurpurea* is often confused with *acuminata*. The same species is said to occur in Asia (Sibera and China) and Europe.

BISTRIGUTTATA Dejean, See NOTATA Laporte et Gory

359. CALIFORNICA Van Dyke (9383)

1917b Burke p. 327, under *Melanophila sp.*
1918 Van Dyke p. 54.
1919 Burke p. 105.
1924 Chamberlin p. 189.
1924 Van Dyke p. 18.

Type locality: Carrville, Trinity Co., California.

Distribution: California, Oregon and Idaho.

California: Shasta, Trinity, Tuolumne, El Dorado, Ventura and Los Angeles Counties (15); Yosemite Valley (10); Weed VII-VII (c).

Oregon: Dilley (4); Ashland VII (c).

Idaho: Centerville V-VII (10).

Host: Yellow pine *(Pinus ponderosa)*, Jeffreyi pine *(P. jeffreyi)*, digger pine *(P. sabiniana)*, coulter pine *(P. coulteri)*, Monterey pine *(P. radiata)*, knobcone pine *(P. attenuata)*, big-cone spruce*(Pseudotsuga macrocarpa)*.

Season: May to August.

*It is doubtful if this species can be separated from *acuminata* DeG.

360. CAROLINA* Manee (9385)

1913 Manee p. 164.
Type locality: Southern Pines, North Carolina.
Distribution: Not reported elsewhere.
Host: Long leaf pine *(Pinus palustris)*.

361. CONSPUTA Lec. (9390)

1857 Leconte p. 44.
1859 Leconte p. 212.
1882 Horn p. 103 pl. 4 fig. 2, 4.
1885 Rickesecker p. 97.
1892 Kerremans p. 111.
1901 Howard p. 97.
1903 Kerremans p. 165.
1913 Woodworth p. 196.
1917 Chamberlin p. 133.
1917a Burke p. 3.
1919 Burke p. 106, 107.
1924 Chamberlin p. 189.

Type locality:: Northern California.
Distribution: Oregon, California, Colorado, Arizona and Nevada.
Oregon: Jackson Co. (c).
California: Shasta (4); Weed VIII (c); Calavaras Grove (10); Kennett VIII (10); San Francisco VII-10 (10); McCloud (13); Pasadena IX, VI (5).
Colorado: South Park (4); Salida (13).
Arizona: Tucson (4).
Nevada: (17). One doubtful record (Duluth, Minn. (3).
Host: Yellow pine *(Pinus ponderosa)*, lodgepole pine *(P. murryana)*, Monterey pine *(P. radiata)*, knobcone pine *(P. attenuata)*, Douglas fir *(Pseudotsuga taxifolia)*.

CROCEOSIGNATA Laporte-Gory, See FULVOGUTTATA Harris

DECOLORATA Lap. et Gory, See ACUMINATA DeGeer

DISCOPUNCTATA Faldermann, See FULVOGUTTATA Harris

362. DRUMMONDI Kirby (8397a)

1837 *Trachypteris drummondi* Kirby p. 159 pl. II fig. 8.
1837 *T. umbellaratum* Kirby p. 159.
1837 *Phaenops gebleri* Dejean p. 89.
1838 *Apatura* Laporte-Gory p. 3 pl. 1 fig. 3.
1843 *Apatura* Mannerheim p. 236 No. 130.
1843 *guttulata* Mannerheim p. 221.
1848 White p. 13.
1857 Lacordaire p. 48.
1857 Leconte p. 7.
1859 Leconte p. 213.
1871 Bethune p. 230.

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*This species is hardly to be separated from *aeneola* Mels.

1872 *Buprestis drummondi* Betoune p. 33.
1872 *B. (T.) umbellatarum* Kirby, Bethune p. 34.
1873 Crotch p. 89.
1874 Henshaw p. 17.
1877 Packard p. 589, 810.
1877 Provancher p. 312 (Supplement p. 12).
1878 Glovr pl. XL fig. 30.
1879 Leconte p. 504.
1882 Horn p. 104.
1888 Holland p. 91.
1889 Blanchard p. 30.
1889 Hamilton p. 138.
1889 *gebleri* Dej., Hamilton p. 138.
1890 Harrington p. 159.
1892 Kerremans p. 111.
1894 *guttalata* Gebel. = *drummondi* Kirby, Hamilton p. 29.
1894 *discopunctata* Fald. = *drummondi* Kirby, Hamilton p. 29.
1894 Slosson p. 2.
1896 Boditch p. 6.
1898 *guttalata* var. *drummondi* Cockerell, Bul. 28 p. 152.
1899 Wickham pt. 7 p. 235.
1901 Fall p. 116.
1902 Hopkins Ent. Bul. 32 p. 22.
1902 Van Dyke p. 172.
1904 Hopkins Bul. 48 p. 22,38.
1906 Felt p. 753.
1907 Fall-Cockerell p. 179.
1908 Morris p. 444.
1908 Wright-Coolidge p. 67.
1909 Morris p. 59.
1910 Burke p. 404.
1912 Gibson p. 14.
1913 Gibson p. 126.
1914 Bush p. 59.
1917 Chamberlin p. 134.
1917 Gibson p. 149.
1917a Burke pl. II fig. 2, pl. VIII fig. 1.
1917b Burke p. 327.
1918 Van Dyke p. 55.
1919 Burke p. 105, 106, 107.
1919 Swaine p. 13 E.
1920 Rohwer p. 442, 470.
1922 Knull p. 82.
1923 Champlain & Knull p. 105.
1924 Chamberlin p. 188.
1925 Chapin p. 33.

Type locality: Canadian Rockies, Lat. 54 and 65°.

Distribution: Alaska and Hudson Bay Region to New Mexico, east to Michigan. Reported from Europe.

Alaska:

Canada: Donald, B. C. VI-9 (10); Glacier, B. C. (10); Unguva Bay, H. B. T. (10); Golden, B. C. (4); Yukon Ter. 62°30′ N. 139°30′ W.; Lesser Slave Lake, Alberta (Swaine).

Washington: Buckeye (10); Key Port VII (10); Hoquiam (10); Seattle (10); Pullman (3); Port Townsend (4).

Oregon: Ashland VII-16 (c); Dilly (4); Cascade (4); Corvallis IV-VIII (c); Wendling IV (c); Detroit V-VIII (C); Grant Co. VII-VIII (c); Klamath Falls VII (c); Astoria VI (c); Portland VII (c).

California: Summerdale (10); Yosemite (10); St. Cruz Mts. (10); Los Gatos (Burke); McCloud (10); Mendocino (4); Dunsmuir (4); Placer Co. (4); Weed VIII (c).

Wyoming: Nat. Park 8/7 (8).
Montana: Helena IV-30 (10); Darby VII-8 (10).
Idaho: Moscow (10); Cascade VI-22.
Colorado: Georgetown 9500 ft. VII (10); Glenwood Springs VII (13); Bailey (3); Ft. Collins VII-2 (3); Garland (Lec.)
New Mexico: Meek (10); Luna (4); Beulah (1).
Arizona: Williams VII-27 (10).
Utah: (Burke); Nevada (15).
Minnesota:: Duluth (10).
Michigan: White Fish Pt. L. S. (10).
Host: Western larch *(Larix occidentalis)*, noble fir *(Abies nobilis)*, grand fir *(A. grandis)*, white fir *(A. concolor)*, black fir *(A. nigra)*, lovely fir *(A. magnifica)*, Alpine fir *(A. lasiocarpa)*, amabilis fir *(A. amabilis)*, Douglas fir *(Pseudotsuga taxifolia)*, engleman spruce *(Picea engelmanni)*, Sitka spruce *(P. sitchensis)*, Westtern hemlock *(Tsugae heterophilla)*, and Mountain hemlock *(T. martensiana)*.

*DRUMMONDI Mannerheim=GUTTALATA Gebler

363. FULVOGUTTATA Harris (9387)

1829 Harris p. 2.
1830 *guttalata* Gebler p. 75, 80.
1833 *discopunctata* Faldermann p. 47 pl. 1 fig. 5.
1837 *Apatura octospilota* Leporte-Gory I p. 4 pl 1 fig. 4.
1837 *A. croceosignata* Laporte-Gory I p. 5 pl. 1 fig. 6.
1837 *A. decolorata* Laporte-Gory I p. 5 pl. 1 fig. 7.
1837 *A. discompunctata* Fald., Laporte-Gory p. 3 pl. 1 fig. 2.
1837 *subguttata* Dejean p. 89.
1838 *decolorata* L.-G., Randell p. 22.
1843 *guttalata* Geb., Mannerheim p. 221.
1852 Harris p. 50 fig. 26.
1857 *A. octospilota* L. et G.=*A. croceosignata* L. et G., Leconte p. 7.
1857 *A. decolorata* L. et G.=*A. crocosignata* L.-G., Leconte p. 7.
1857 *Trachypteris fulvoguttata* Fitch p. 706.
1857 *discompunctata* Fald., Lacordaire p. 48.
1859 Leconte p. 213.
1869 Harris p. 358.
1869 Glover p. 91.
1870 Pettit p. 67.
1873 Crotch p. 99.
1874 Austin p. 269.
1877 Provancher p. 313.
1878 Hubbard-Schwarz p. 636, 656.
1878 Glover pl. XI fig. 9.
1880 Zesch-Reinecke p. VII.
1881 Harrington p. 30.
1882 Horn p. 104 pl. IV fig. 5.
1882 Leconte List I.
1885 Ricksecker p. 97.

*This is not the *drummondi* of Kirby.

1889 *guttalata* Geb., Hamilton p. 138.
1889 Blanchard p. 31.
1890 Packard p. 683.
1892 Hopkins p. 256.
1892 Kerremans p. 111 .
1893 Hopkins p. 181.
1894 Slosson p. 2.
1894 Hamilton p. 29.
1895 Hamilton p. 364.
1895 Evans p. 146.
1896 Bowditch p. 6.
1898 Hopkins p. 103.
1899 Hopkins p. 254.
1902 Hopkins p. 22.
1902 Young p. 157.
1902 Kerremans p. 165.
1902 *guttalata* Kerremans p. 165.
1902 *discopunctata* Kerremans p. 165.
1902 *octospilota* Keremans p. 165.
1902 *croceosignata* Kerremans p. 165.
1902 *decolorata* Kerremans p. 165.
1902 *drummondi* Kerremans p. 165
1903 Felt p. 172.
1904 Hopkins Bul 48 p. 38.
1905 *guttalata* Geb., Poppins p. 175.
1906 Felt p. 339, 390.
1909 Smith p. 292.
1910 Burke p. 405.
1912 Beal p. 43.
1912 Frost p. 305.
1913 Woodworth p. 196.
1914 Felt p. 373.
1915 Felt pp. 26-30.
1916 Blackman-Ellis p. 49.
1916 Morris p. 19.
1917 Nicolay p. 93.
1917 Chagnon p. 218.
1918 Blackman p. 20, 31, 34, 36, 41, 80.
1918 Van Dyke p. 55.
1919 Burke p. 105, 106, 108.
1920 Knull p. 6.
1920 Britton p. 244.
1922 Knull p. 82.
1924 Hatch p. 571.
1924 Felt p. 238-240.
1924 Mundinger p. 315.

Type locality: Massachusetts.

Distribution: Eastern and Middle States, Canada. Reported from California and Nevada; these specimens are probably *drummondi*.

Canada: Ontario.

Maine: Monmouth.

New Hampshire: White Mountain (10).

New York: West Point (9); Ramapa (4); Buffalo (4); Big Moose VIII-12 (Felt).

New Jersey: Orange Mts. (8).

Pennsylvania: Pittsburg (9).

Michigan: Port Heron (10); Grand Island V (10); Marquette VII-2 (10).

North Carolina:: Tyron (10); Durham (10).

West Virginia: (10).

Host: Eastern hemlock *(Tsuga canadensis)*, red spruce *(Picea rubens)*, white pine *(Pinus strobus)*, and Larch *(Larix americana)*.

Season: May to August.

GEBLERI Dejean, See DRUMMONDI Kirby

364. GENTILIS Leconte (9380)

1859 *prasina* (name preoccupied) Leconte p. 254.
1863 Leconte p. 42.
1869 Gemminger-Harold p. 1385.
1873 *prasina* Lec.=*gentilis* Lec., Crotch p. 89.
1882 Horn p. 105.
1885 Ricksecker p. 97.
1895 Fall p. 98.
1901 Fall p. 116.
1903 Kerremans p. 164.
1912 Gibson p. 14.
1913 Gibson p. 126.
1913 Woodworth p. 196.
1913 Gibson p. 11.
1914 Gibson p. 116.
1916 Larsen p. 6.
1917 Chamberlin p. 134.
1917bBurke p. 327.
1919 Burke p. 105, 106, 107.
1924 Chamberlin p. 189.
1925 Good p. 272 figs. 7, 8.

Type locality: California.
Distribution: Pacific Coast and Rocky Mountain States, east to Dakota and Nebraska.
Washington: Spokane (4).
Oregon: Ashland (25); The Dalles (10); Klamath Falls (C); La Grande (C); Warner Mts. (C); Sparta (C).
Montana: Columbia Falls (10).
Idaho: Centerville VII (10); Cascade VI-24.
Colorado: Waldo Canyon (10); Denver (3); Boulder VIII (c); Baily VIII (3).
California: Tallac VII (4); Madera Co. III-23 (8); Miami (9); Tahoe 6200 ft. VI-10 (9); Summerdale (10); Meyers (c); Fallen Leaf Lake (15); Fresno (4); Weed VIII (c); McCloud (13); S. B. Mts. (5); Los Angeles (10); Tulare Co. (16); Truckee 5800 ft. (W).
Arizona: Flagstaff VI-29 (9), VII-7 (C); Williams VII (10).
Nevada: Tahoe (9).
New Mexico: Buelah (4); Parveuis (16).
Nebraska: War Bonnet Canyon (10).
Host: Yellow pine *(Pinus ponderosa)*, variety *(P. scopulorum)*, sugar pine *(P. lambertiana)*, Jeffrey pine *(P. jeffreyi)*, and lodgepole pine *(P. murryana)*.
Season: March to August.

GUTTULATA Gebler, See FULVOGUTTATA Harris

GUTTULATA Mannerheim, See DRUMMONDI Kirby

IMMACULATA Dejean, See ACUMINATA DeGeer

IMMACULATA Mannerheim, See LONGIPES Say

365. INTRUSA Horn (9381)

1882 Horn p. 105.
1892 Kerremans p. 112.
1895 Fall p. 98.
1901 Fall p. 116.
1901 Howard p. 97.
1903 Kerremans p. 165.
1913 Woodworth p. 196.
1917aBurke pl. II fig. 3.
1917bBurke p. 328.
1918 Van Dyke p. 55.
1919 Burke p. 106, 108.
1924 Chamberlin p. 189.
1924 Van Dkye p. 18.

Type locality: California.
Distribution: California, Colorado, Nevada, Arizona and Texas, Oregon.
California: Holotype No. 3426 Cal. (17); Paratype Cal. (17); Plumas Co. VIII-17 (8), VI-2 (c); Julian (10); Placerville (10); Tallac (10); McCloud (13); San Bernardino Mts. (5); Julian (25).
Colorado:: Cheyenne Canyon (10)
Arizona: Pinal Mts. (9); Williams (10); Santa Cruz Mts. (13).
Nevada: Paratype Nev. (17).
Texas: Flotonia VII-20 (8).
Host: Yellow pine *(Pinus scopulorum)*, sugar pine *(P. lambertiana)*, knobcone pine *(P. attenuata)*, Western yellow pine *(P. ponderosa)*, and Coulter pine *(P. coulteri)*.
Season: June to July.

LONGIPES Say, See ACUMINATA Dejean

LUTEOSIGNATA Mannerheim, See NOTATA Laporte-Gory

METALLICA Mels., See AENOLA Melsheimer

366. MIRANDA Lec. (9388)

1854 *Phaenops mirandus* Leconte p. 83.
1859 Leconte p. 212.
1859 Leconte p. 211 pl. 12 fig. 7.
1882 Horn p. 102 pl. IV fig. 1.
1892 Kerremans p. 113.
1893 Cockerell p. 313.
1895 Townsend p. 43.
1907 Fall-Cockerell p. 179.
1919 Burke p. 106.
1924 Chamberlin p. 188.

Type locality: Fort Union, New Mexico.
Distribution: Oregon, through the Rocky Mountain States to Texas.
Oregon:: Eastern Oregon (Leconte).
Colorado: Denver VII (c); Globe VIII-4 (3).
Arizona: Pinedale (10); Grand Canyon.
Utah: Gt. George (9); San Juan Co.
New Mexico: Ft. Wingate VII-1 (9); Ft. Union (Lec.).

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Texas: (Lec.).
Host: Unknown.
Season: July-August.

MORIO Paykull, See ACUMINATA DeGeer

367. NOTATA Laporte-Gory (9389)

1837 *Apatura notata* Laporte-Gory p. 4 pl. 1 fig. 5.
1837 *var. bistriguttata* Dejean p. 89.
1837 *luteosignata* Dejean p. 89.
1837 *luteosignata* Dej., Mannerheim p. 70.
1844 *Phaenops luteosignata* Dej., Ziegler p. 267.
1848 White p. 23.
1857 Lacordaire p. 48.
1857 Leconte p. 7.
1859 Leconte p. 212.
1867 Chevrolat p. 580.
1873 Crotch p. 89.
1873 *luteosignata* Dej.=*notata* L.-G., Leconte p. 331.
1882 Horn p. 103 pl. IV fig. 3, 6.
1885 *luteosignata* Zeigler = *notata* L.-G., Henshaw p. 131.
1888 Waterhouse p. 17.
1892 Kerremans p. 113.
1893 Gundlach p. 163.
1901 Scott p. 31.
1902 Ulke p. 21.
1903 Kerremans p. 165.
1903 *luteosignata* Dej., Kerremans p. 165.
1909 Smith p. 292.
1913 Manee p. 169.
1914 Leng-Mutchler p. 430.
1914 Blatchley p. 89.
1917 Blatchley p. 239.
1917 Leng-Mutchler p. 205.
1918 Dozier p. 331.
1919 Burke p. 107.
1925 Fisher p. 171-173.

Type locality: North America (exact locality not recorded).
Distribution: New Jersey to Florida, Cuba and the Bahamas, west to Arizona.
New Jersey: (Smith).
North Carolina: Wilmington (8).
Georgia: Savannah (10); Offerman IV-12 (4); St. Simon Island (4); Okefenokee Swamp (4).
Florida:: Enterprise (14); Key Largo (c); Tampa (17); Lake Poinsetta (10); Miami (10); Biscayne VI-27; Gainsville III-31 (Dozier).
Louisiana: Vernon Parish (4).
Arizona: Tucson (4).
Cuba: (4).
Host: Pine.

367a. Variety OPACA Leconte

1859 Leconte p. 213.
1873 Crotch p. 89.
1892 Kerremans p. 113.
1903 Kerremans p. 165.
1925 *opaca* Lec.=*notata* L. & G., Fisher p. 171.

Type locality: Georgia.
Distribution: North Carolina, Georgia and Florida.
Georgia: Okefenokee Swamp IV-12 (4).
Florida: Key Largo (9); Ragged Key III-28 (10).
North Carolina: Southern Pines VI-12 (c).
Host: Pine.

368. OBTUSA Horn (9386)

1882 Horn p. 106.
1892 Kerremans p. 113.
1903 Kerremans p. 165.
1919 Burke p. 108.

Type locality: Georgia.
Distribution: Georgia.
Georgia: Holotype Georgia No. 3427 (17).
Host: Unknown.

OCTOSPILATA Laporte-Gory, See FULVOGUTTATA Harris

OPACA Leconte, a Variety of NOTATA Laporte-Gory

PECCHIOLII Laporte-Gory, See ACUMINATA DeGeer

369. PINI-EDULIS Burke (9382)

1908 Burke p. 117-118 fig. 6.
1918 Burke p. 210.
1918 Van Dyke p. 55.
1919 Burke p. 106, 108.
1920 Chamberlin p. 244.
1924 Chamberlin p. 189.

Type locality: Arizona (Grand Canyon, P. O.), and Utah (Panguitch).
Distribution: California, Colorado, Oregon?, Utah and New Mexico.
California: Havilah V-25, Kern Co. (c); Auberry, Fresno Co. VI-2 (c).
Colorado: Garden of the Gods (10).
Oregon: Waldo III-13 (25)?.
Arizona: Grand Canyon (Burke).
Utah: Panguitch (Burke).
Host: Pinyon *(Pinus edulis)*, Digger pine *(P. sabiniana)*, and Jeffrey pine *(P. Jeffreyi)*.
Season: June to September.

PRASINA Leconte, See GENTILIS Leconte

RUGATA Leconte, See ACUMINATA DeGeer

SUBGUTTATA Dejean, See FULVOGUTTATA Harris

TRANSVERSA Say?

UMBELLATARUM Kirby, See DRUMMONDI Kirby

Genus *PASCHYSCHELUS* Solier

1833 Solier p. 313.

Type of the genus **PACHYSCELUS SCUTELLATUS** Mihi.

AMERICANUS Gory, See PURPUREUS Say

CAERULEUS Schwarz, See SWARTZI Kerremans

CARBONATUS Leconte (9563), See LAEVIGATUS Say

370. LAEVIGATUS Say (9567)

1825 *Trachys laevigatus* Say p. 252
1836 *Metonius ovatus* Say p. 164.
1841 *Brachys punctata* Gory p. 347
1859 Leconte p. 253.
1859 *carbonatus* Leconte p. 252.
1874 LeBaron p. 96.
1874 Henshaw p. 17.
1878 Schwarz p. 364.
1878 Hubbard-Schwarz p. 656.
1889 Blanchard p. 32.
1895 Hamilton p. 364.
1896 *polita* Kerremans p. 322.
1896 *polita* Kerr.=*laevigatus* Say, Horn p. 247.
1902 Ulke p. 22.
1903 *Brachys carbonatus* Lec., Kerr. p. 326.
1906 Evans p. 99.
1909 Easton p. 50.
1909 Blatchley p. 807.
1909 Smith p. 296.
1913 Manee p. 169.
1917 Chagnon p. 219.
1919 Nicolay p. 20.
1920 Nicolay-Weiss p. 138, 139-140.
1920 Knull p. 12.
1920 *ovatus* Say, Briton p. 245.
1921 Nicolay p. 175.
1922 Weiss p. 7.
1922 Weiss & West p. 180-183.
1922 Knull p. 86.

Type locality: Indiana.
Distribution: Ontario to Florida, west to the Mississippi River.
Ontario: Western Ontario (Evans).
Massachusetts: Natick VI-20 (c); Framingham VI-6 (14).
New York: Queens, L. I. XI-28 (sifting) (19); Stanton Island (4).
Nw Jrsy: Atco VI-30, VII-6 (8); Palisades (4); Ft. Lee (4); DeCosta VII-4 (8); Pitman Grove VII-28 (17); Clifton VII-10 (17).
Pennsylvania: Jamesburg VI-7 (4); Philadelphia VII-3 (4); Angora VI-15 (17); Lehigh Gap VII-3 (17); Glenside VII-5 (17).
Maryland: Plummers Isl. V-28 (c).
Virginia: Falls Church VII-11 (9).
Georgia: Clayton VI (4).
North Carolina: Black Mountains VI-21 (9); Tyron (10).
West Virginia: White Sulphur (13).
Michigan: Detroit VI-23 (10).
Florida: (4).
Washington, D. C.: (17).

Hosts: Larva mine the leaves of black gum *(Nyssa sylvatica)*, black haw *(Crataegus douglasii)*, milk weed, bush clover *(Lespedeza virginica)*, and *(L. bicolor)*, Tick tree foil *(Meibomia obtusa)*, and *(M. viridiflora)*, *Desmodium canadense*.

OCULATUS Schaeffer, a Variety of SCHWARZI Kerr.

OVATUS Say, See LAEVIGATUS Say

POLITUS Kerremans, See LAEVIGATUS Say

PUNCTATA Gory, See LAEVIGATUS Say

371. PURPUREUS Say (9564)

1836 *Metonius purpureus* Say p. 164.
1837 Dejean p. 94.
1841 *Brachys americanus* Gory p. 346 pl. 58 fig. 343.
1857 *Metonius* Lacordaire p. 87.
1859 Leconte p. 253.
1874 LeBaron p. 96.
1878 Hubbard-Schwarz p. 656.
1878 Schwarz p. 364.
1883 Leconte p. 599.
1889 Blanchard p. 32.
1892 Kerremans p. 298.
1898 Cockerell p. 152.
1902 Ulke p. 22, 47.
1903 Kerremans p. 319.
1903 *americana* Kerremans p. 319.
1906 Felt p. 715.
1907 Fall-Cockerell p. 181.
1909 Smith p. 296.
1909 Wickham p. 23.
1915 Johnson p. 312.
1919 Nicolay p. 20.
1920 Britton p. 245.
1921 Nicolay p. 175.
1922 Knull p. 86.
1925 Good p. 272 fig. 30.

Type locality: Posey County, Indiana.
Distribution:: New England to Iowa, New Mexico and Texas.
Massachusetts:: Framingham VI (14).
New York: Queens, L. I. (Nicolay).
New Jersey: Greenwood Lake V (4); Orange Mts. V-30 (8).
Pennsylvania: Glenolden V-25 (8); Wawa V-25 (Daecke).
Tenneessee: Elmwood (9); Nashville VIII (9).
Ohio: Cincinnati VII-9, IX-5 (11).
Illinois: Palas Park V-26 (9); Riverside VI-29 (c); Glenweir V-26 (c).
Iowa: Iowa City (W); Waterloo (W).
Michigan: Detroit (10).
Texas: (17).
New Mexico: (24).
Host: Feeds on leaves of Geranium *(Geranium maculatum)*. Taken on *Rhas tox* (14).

372. SCHWARZI Kerremans (9565)

1844 *Buprestis caerulea* Melsheimer (catalogue) p. 148.
1878 *caeruleus* (name preoccupied) Schwarz p. 364, 452.
1892 Kerremans p. 288.
1896 *caeruleus* Castle-Laurent p. 303.
1903 *schwarzi* n.n. for *caeruleus* (name preocupied) Swz., Kerermans p. 321.
1917a Burke pl. IV fig. 4.
1920 Nicolay & Weiss p. 140-141.
1921 Nicolay p. 175.

Type locality: Florida.
Distribution: Georgia and Florida, west to Texas and Arizona.
Georgia: Okefenokee Sw. (4).
Florida: Tampa IV-3 (4); Orange Co. (17); Lake Mary (8); Enterprise IV-17 (c); Kissimmee VI-20 (10); Copson III-4, VII-4 (10).
Texas: Harrisburg VII-31 (8).
Arkansas: (8).
Arizona: (17).
Host: Unrecorded.

372a. Variety OCULATUS Schaeffer

1909 Schaeffer p. 377.
1920 Nicolay & Weiss p. 141-142.
1921 Nicolay p. 175.

Type locality: Nogales, Arizona.
Distribution: Southern Arizona.
Host: Unknown.

Genus *PARATYNDARIS* Fisher

1919 Fisher p. 92.
Type of the genus TYNDARIS OLNEYAE Skinner.

373. BARBERI Skinner (9296)

1903 *Tyndaris barberi* Skinner p. 236 pl. 10 fig. 3.
1907 *Tyndaris* Kerremans p. 568.
1919 Fisher p. 92.

Type locality: Florence, Arizona.
Distribution: Arizona.
Arizona: Type Florence VI-28 (17); Hot Springs VI-26 (17).
Host: Taken on cat's claw *(Acacia greggii)*, Mexican ironwood *(Olneya tesota)*.

374. CHAMAELONIS Skinner (9297)

1903 *Tyndaris chamaeleonis* Skinner p. 237 pl. 10 fig. 1.
1907 *Tyndaris* Kerremans p. 566.
1919 Fisher p. 92.
1925 Good p. 272 fig. 29.

Type locality: Carmal Co., Texas.
Distribution: Extreme Southern Texas.
Texas: New Brunsfels, Carmal Co. (17); Los Barregos (10); Brownsville VI-6, VI-23 (c).
Host: Taken on flowers of Mesuqite *(Prosopis juliflora)*.

375. CINCTA Horn (9293)

1885 *Tyndaris cincta* Horn p. 147 pl. 4 fig. 13.
1892 *Tyndaris* Kerremans p. 165.
1902 *Tyndaris* Kerremans p. 40.
1903 Skinner p. 236, 238.
1907 *Tyndaris* Kerremans p. 562.
1919 Fisher p. 92.

Type locality: Texas
Distribution: Texas.
Texas: Holotype (Unique) "Tex." (17).
Host: Unknown.

376. COURSETIA Fisher

1919 Fisher p. 93.
1921 Nicolay p. 174.

Type locality: Tucker Canyon, Santa Catalina Mts., Arizona.
Distribution: Taken only in the type locality.
Host: Bred from *(Coursetia microphylla)*.
Season: July-17.

377. OLNEYAE Skinner (9294)

1903 *Tyndaris olneyae* Skinner p. 236 pl. 10 fig. 4.
1907 *Tyndaris* Kerremans p. 567.
1917a *Tyndaris* Burke pl. V fig. 4.
1918 *Tyndaris* Burke p. 211.
1919 Fisher p. 92.

Type locality: Florence, Arizona.
Distribution: Arizona and Texas.
Arizona: Yavapi Hot Springs VI-26 (17); Florence VI-26 (17); Cotype Florence (13); Cotype Hot Springs VI-28 (10); Bush Corral, St. Catalina Mts. (10); Santa Rita Mts. VII-12 (11); Pinion Mts. 5000 ft. VI (c).
Texas: Davis Mts. VI-6 (9); Chisos Mts. VI-7 (9).
Hosts: Mexican ironwood *(Olneya tesota)*, cat's claw *(Acacia gregii)*, Mesquite *(Prosopis juliflora)*, and Palo verde *(Cercidium torreyanum)*.

378. PROSOPIS Skinner (9295)

1903 *Tyndaris prosopis* Skinner p. 237 pl. 10 fig. 6.
1906 *Tyndaris* Kerremans p. 567.
1919 Fisher p. 92.

Type locality: Austin, Texas.
Distribution: Texas.

Texas: Austin VI-28 (17); Brewster Co. VI-10 (10).
Host: Mesquite *(Prosopis juliflora)*.
Season: June.

Genus *POECILINOTA* Esch.

1829 Eschscholtz p. 9.
Type of the genus **BUPRESTIS VARIOLOSA** Paykull.

379. BRIDWELLI Van Dyke (9354)

1918 Van Dyke p. 53.
1922 Chamberlin p. 53, 62 pl. V fig. 4 and 5, pl. VII fig. 11 and 12.

Type locality: Imperial Co., California.
Distribution: California and Arizona.
Arizona: Tucson VI-30, VII-10 (10).
Host:: Type specimens taken on flowers, also taken on cottonwood in Arizona.
Season: June-July.

COSTICOLLIS Gory, See THUREURA Say

CUPRIPES Casey, See CYANIPES Say

380. CAYNIPES Say (9351)

1836 *Buprestis cyanipes* Say p. 164
1841 *Dicerca erecta* Gory (Suppl.) p. 110 pl. 19 fig. 108.
1841 Gory p. 110 pl. 19 fig. 108.
1857 *erecta* Leconte p. 8.
1859 *erecta* Leconte p. 204.
1873 *erecta=cyanipes* Say, Crotch p. 88.
1873 Crotch p. 88.
1873 *D. erecta* Gory=*P. cyanipes* Say, Lecote p. 331.
1878 Hubard-Schwarz p. 655.
1880 Zesch-Reinecke p. VII.
1886 Fletcher p. 10.
1889 Blanchard p. 30.
1890 Harrington p. 51.
1891 Davis p. 66.
1891 *debilis* Lec.=*cyanipes* Say, Horn, p. 45.
1892 *erecta* Gory=*cyanipes* Say, Kerremans p. 91.
1892 Davis p. 80.
1892 Kerremans p. 90.
1894 Harrington p. 47.
1895 *cyanipennis* Hamilton p. 364.
1898 Cockerell p. 151.
1902 Kerremans p. 132.
1902 *erecta* Kerremans p. 132.
1902 *debilis* Ulke p. 21.
1906 Felt p. 746.
1908 Gibson p. 126.
1909 Smith p. 292.
1909 Blatchley p. 783.
1909 Wickham p. 23.
1909 *erecta* Casey p. 167.

1909 *cupripes* Casey p. 169.
1911 Gibson p. 114.
1912 Beal p. 26.
1912 Frost p. 305.
1912 *cupripes* Gibson p. 126.
1913 Gibson p. 126.
1917 *erecta* Gibson p. 149.
1917 Chagnon p. 218.
1917b Burke p. 327.
1919 *cyanipes* var. *erecta* Gory Nicolay p. 277.
1920 Knull p. 5.
1920 Hofer p. 9.
1922 Chamberlin p. 61 *cupripes* Casey=*cyanipes* Say, p. 62 *parviceps* Casey=*cyanipes* Say.
1922 Chamberlin p. 53, 56 pl. VI fig. 13 and 14, pl. VII fig. 6 and 8.
1922 Knull p. 80.
1924 Van Dyke p. 18.
1924 Hatch p. 571.
1925 Good p. 272 figs. 25, 26.

Type locality: Missouri.

Distribution: Yukon Territory, south through the Pacific Coast and Rocky Mountain States to New Mexico.

Canada: Saskatchewan VII-3 (16); *Telegraph Creek, B. C. (4); Radisson (16); Manitoba; Edmonton, Alberta VII (Gibson).

Idaho: Beaver Canyon VII-23 (10); *Cascade VI-22 (c).

Colorado: El Paso Co. (10); Cripple Creek (10); Colorado Springs.

*California: Lake Tahoe (10) Tuolumne Co. (10).

New Mexico: Gallinas Canyon (24).

Wyoming: Yellowstone Park (10).

Utah: *Virginia River (4).

Michigan: Detroit (10), (18); Garden Island, High Island, July-Sept. (Hatch).

New Jersey: (19).

Minnesota: Duluth (10).

Montana: Missoula (10).

New York: Buffalo (10), (4).

Pennsylvania: Jannette (3); Hummelstown VI-6 (Knull); Milford (Knull).

Wisconsin: Bayfield (4), (18) (Casey).

Texas: (18).

Virginia: (16).

Illinois: Cicero VIII-5 (c).

Indiana: Millers VIII-11 (c).

Host: Bred from Aspen *(Populus tremuloides)*, cottonwiid *(P. trichocarp)*, *(P. deltoides)*, and large-toothed Aspen *(P. grandidentata)*. Beaten from oak, sycamore, pine and willow.

Season: June to September.

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*Probably variety *Californica* Chamberlin.

380a. Variety CALIFORNICA Chamberlin

1922 Chamberlin p. 57 pl. V fig. 7 and 8 pl. VII fig. 5 and 7.
1924 Chamberlin p. 185.

Type locality: Vade, California.
Distribution: California, Oregon, Idaho and Utah.

381. DEBILIS Leconte

1859 Lecote p. 204.
1891 *debilis* Lec.=*cyanipes* Say, Horn p. 45.
1892 Kerremans p. 90.
1902 Ulke p. 47.
1902 Kerremans p. 132.
1922 Chamberlin p. 53, 60 pl. V fig. 3, pl VII fig. 13.

Type locality: Baltimore, Maryland.
Distribution: Known only by the type of Leconte in Cambridge.

ERECTA Gory (9351a), See CYANIPES Say

382. FERREA Mels. (9352)

1844 Melsheimer p. 144.
1857 *Buprestis* Lacordaire p. 36.
1859 Leconte p. 204.
1892 Kerremans p. 91.
1902 Kerremans p. 132.
1902 Van Dyke p. 172.
1917bBurke p. 327.
1917 Chamberlin p. 131.
1922 Chamberlin p. 53 (re-described) p. 59 pl. VI fig. 11 and 12, pl. VII fig. I and II.

Type locality: Virginia.
Distribution: Minnesota to Virginia.
Minnesota:: Duluth (10).
Virginia: (18).
Illinois: (18).
Indiana: Millers (c).
Illinois: Cicero (c).
Hosts: Aspen *(Populus tremuloides)*, Nuttalls Willow *(Salix nuttalli)*.
Season: July to September.

383. FRASERI Chamberlin

1922 Chamberlin p. 64 pl. V fig. 6, pl. VII fig. 14.
1919 Swaine p. 133 (P. undes sp. Stewart River, B. C.).
1925 Chamberlin p. 187.

Type locality: Fraser River, British Columbia.
Distribution: British Columbia, California (Van Dyke).

PARVICEPS Casey, See CYANIPES Say

384. MONTANUS Chamberlin

1922 Chamberlin p. 63 pl. V fig. 1 and 2, pl. VII fig. 9 and 10.
1924 Chamberlin p. 186.
1925 Chamberlin p. 187.

Type locality: Missoula, Mont., June 16.
Distribution: Montana (Missoula), Manitoba (Makinah).
Oregon: Oakridge (c).
Idaho: Cascade (c).

385. *SALICIS Chamberlin

1925 *salixi* Chamberlin p. 186.
Type locality: Warner's, San Diego, California.
Distribution: Southern California, San Diego (C); Los Angeles (Van Dyke).
Host: *Salix sp.*

336. THUREURA Say (9353)

1832 *Buprestis* Say p. 3.
1841 *Buprestis costicollis* Gory IV p. 109 pl. 19 fig. 107.
1857 Lacordaire p. 36.
1857 *B. costicollis* Gory=*thureura* Say, Leconte p. 8.
1859 Leconte p. 204.
1880 Zesch-Reinecke p. VII.
1883 Leconte p. 300.
1892 Kerremans p. 92.
1894 Stromberg p. 37.
1902 Kerremans p. 132.
1902 *costicollis* Gory, Kerremans p. 132.
1909 Smith p. 292.
1909 Casey p. 170.
1915 Kwiat p. 237.
1917bBurke p. 327.
1917aBurke pl. III fig. 4.
1922 Knull p. 80-81.
1922 Chamberlin p. 53, 54 pl. V fig. 9 and 10, pl. VII fig. 3 and 4.

Type locality: Louisiana (probably Louisiana Territory).
Distribution: Louisiana (Say): New Orleans.
Indiana: Elkhart.
Kansas: (3); Wallace and Coldwater.
Texas: (18).
Virginia: Pimmint Run.
Manitoba: Awanee.
Pennsylvania: Harrisburg (Knull).
Hosts: Willows *(Salix sp.)*.
Season: June to August (May in Pennsylvania).

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*This name should have been *salicis* in the original description instead of *salixi*.

Genus *POLYCESTA* Sol.

1833 Solier p. 281 pl. 11 fig. 11.
Type of the genus **B. PORCATA** Fab.

ANGULOSA Duval (9208), See EXCAVATA Blanchard

387. ARIZONICA Sch. (9212)

1906 Schaeffer p. 21.
1906 Fall p. 166.

Type locality: Palmerlee, Cochise Co., Arizona.
Distribution: Arizona.
Arizona: Palmerlee; Huachuca Mts. VII-7 (8); Santa Catalina Mts. July 3 (3).
Host: Taken on Live oak.

388. CALIFORNICA Lec. (9209)

1857 Leconte p. 45.
1858 Leconte p. 68.
1859 Leconte p. 220.
1859 Motschulsky p. 180 pl. 4 fig. 16.
1859 *cribrana* Motschulsky p. 182.
1873 Crotch p. 89.
1892 Kerremans p. 160.
1901 Fall p. 118.
1902 Kerremans p. 26.
1905 Fall p. 73, 105.
1906 *obtusa californica* Lec., Ker-
1906: *obtusa* Lec.=*californica* Lec., Keremans p. 508.
1906 Fall p. 166.
1906 Schaeffer p. 22.
1907 Kerremans p. 612.
1913 Woodworth p. 196.
1917 Chamberlin p. 166.
1917bBurke p. 329.
1920 Burke p. 74.
1924 Chamberlin p. 192.
1925 Good p. 272 figs. 27, 28.

Type locality: Sacramento, California.
Distribution: Oregon, California, Texas and Lower California.
Oregon: Ashland (Miller); Gold Hill (C).
California: Los Angeles Co. VI-VII (10); Kaweah, Jan. 15 (9); Walker (10); Placerville (10); Pasadena V, VI (5); Yosemite (15); Mariposa Co. (15); Trinity Co. (15); Los Gatos (Burke).
Texas: VI-13 (16); (Kerremans), (18).
Hosts: Kellogg oak *(Quercus kellogii)*, canyon live oak *(Q. chrysolepis)*, Douglas oak *(Q. douglasii)*, Garry oak *(Q. garryana)*, California black oak *(Q. Californica)*, interior live oak *(Q. wislizeni)*, Madrone *(Arbutus menziesii)*, Fremont poplar *(Populus fremonti)*, white alder *(Alnus rhombifolia)*, mountain mahogany *(Cercocarpus parvifolius)*, domestic apple *(Pyrus malus)*, domestic Pear *(P. dommunis)*, almond *(Prunus emygdalus)*, broad leaf maple *(Acer macrophyllum)*, Christmas berry *(Heteromeles arbutefolia)*, redbud *(Cercis occidentalis)*, manzanita *(Arctostaphylos viscida)*, and cat's claw *(Acasia greggii)*.

CAVATA Leconte, See ELATA Leconte

CRIBRANA Motschulsky, See CALIFORNICA Leconte

389. ELATA Leconte (9210)

1858 Leconte p. 68.
1858 *cavata* Leconte p. 69.
1859 Leconte p. 220.
1873 *cavata* Lec.=*elata* Lec., Crotch p. 89.
1878 Glover plate 41 fig. 29.
1891 Angell p. 106.
1892 *elata* Lec.=*californica* Lec., Kerremans p. 161.
1905 Fall p. 73.
1906 *elata* and *cavata*=*californica* Lec., Kerremans p. 508.
1906 Schaeffer p. 22.
1906 Fall p. 166.
1907 Kerremans p. 612.
1917bBurke p. 329.

Type locality: Texas.
Distribution: Arizona and Texas, (Alabama?).
Arizona: Kitt's Peak 3600 ft. VIII-7.
Texas: Cypress Mills, Dec., Jan. (4); El Paso (9); Bethage V-II (9).
Hosts: Larva work in post oak *(Quercus obtusifolia)*, Arizona oak *(Q. arizonica)*, Emory oak *(Q. emoryi)*, white leaf oak *(Q. hypoleuca)*, Wright sycamore *(Plantanus wrightii)*, hackberry *(Celtis reticulata)*, and mesquite *(Prosopis juliflora)*.

390. *EXCAVATA Blanch.

1837-45 Blanchard p. 149.
1857 *angulosa* Duval p. 62.
1867 *angulosa* Chevrolat p. 582.
1892 Kerremans p. 161.
1893 *angulosa* Gundlach p. 166.
1906 *angulosa* Schaeffer p. 22.
1906 *angulosa* Duv.=*excavata* Blan., Kerremanns p. 513 pl. 10 fig. 5.
1910 *obtusa* Lec.=*angulosa* Duv., Fall p. 138.
1914 *angulosa* Leng.-Mutchler p. 429.
1917 Leng.-Mutchler p. 205.
1922 *angulosa (obtusa)* Knull p. 79.
1922 *angulosa* Champlain & Knull p. 102.
1925 *angulosa* Fisher p. 8, 21-22.

Type locality: *P. excavata* Mercado, Santa Cruz, Argentina?.
Type locality of *P. angulosa:* Cuba.
Distribution: Florida, Cuba and South America.
Florida: Elliott Key (1); Key Largo (1); Metacombe Key (4); Buck Key (10); Miami V (10).
Host: Breeds in *Coceolobis laurifolia*.

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*Possibly the name *Angulosa* Duval should be retained. See Fisher 1925, page 22.

OBTUSA Leconte, See VELASCO Laporte-Gory

391. VELASCO Lap. et Gory (9211)

1837 Laporte et Gory p. 5 pl. I fig. 6.
1857 Leconte p. 8.
1858 *obtusa* Leconte p. 69.
1859 *obtusa* Leconte p. 220, 221.
1873 Crotch p. 89.
1873 *obtusa* Crotch p. 89.
1873 *obtusa* Lec.=*velasco* L.-G., Leconte p. 332.
1888 Waterhouse p. 18.
1892 *velascoi* Gory, Kerremans p. 161.
1894 Horn p. 328.
1895 Wickham p. 295.
1898 Wickham p. 305.
1899 Wickham p. 235.
1901 Fall p. 118.
1902 Van Dyke p. 200.
1905 Fall p. 73.
1905 *obtusa* Lec., Fall p. 74.
1906 Schaeffer p. 22.
1906 Fall p. 166.
1907 Kerremans p. 612.
1907 Fall-Cockerell p. 154.
1910 Fall p. 138.
1913 Woodworth p. 196.
1917bBurke p. 329.
1917aBurke pl. IV fig. 4.

Type locality: Mexico.
Distribution: Arizona, California, Texas, Mexico and Lower California.
Arizona: Tucson VIII-25 (4); Yuma V (4); Ft. Huachuca (7); Florence VII-12 (8); Sabino Can. VII 3600 ft.
California: Indio (5).
Texas: Carmel Co. (1); Laredo (10); Hermit Co. (13).
Lower California: Santa Rosa 2000 ft. (1).
Hosts: Cat's claw *(Acacia greggii)*, mesquite *(Prosopis juliflora)*, and Palo verde *(Cercidium torreyanum)*.

Genus *PSILOPTERA* Sol.

1833 Solier p. 283 pl. 11 fig. 13.
Type of the genus BUPRESTIS ATTENUATA Fabricii.

ARIZONICA Casey, See WEBBI Leconte

CASEYI Kerremans, See DRUMMONDI L. & G.

CONVEXA Casey (name preoccupied), See DRUMMONDI L.-G.

392. CUPREOPUNCTATA Schaefer (9325)

1905 Schaeffer p. 147.
1909 *Spinthoptera* Casey p. 75.
1910 Kerremans p. 141.

Type locality: Brownsville, Texas.
Distribution: Known only from the type locality.
Host: Mesquite *(Prosopis juliflora)*.

393. DRUMMONDI Laporte-Gory (9324)

1837 Laporte-Gory I p. 37 pl. 9 fig. 44.
1848 White p. 16.
1857 Leconte p. 7.
1859 Leconte p. 193.
1873 Crotch p. 84.
1882 Waterhouse p. 10.
1891 Marlott p. 43.
1892 Kerremans p. 60.
1898 Cockerell p. 152.
1903 Kerremans p. 94.
1904 Kunze p. 242.
1904 Wickham p. 307.
1907 Fall-Cockerell p. 179.
1909 *Spinthoptera convexa* Casey p. 73.
1910 Kerremans p. 130.
1910 *caseyi* (n.n. for *convexa* Casey) Kerremans p. 130.
1925 Good p. 272 fig. 24.

Type locality: Mexico.
Distribution: Kansas, New Mexico, Arizona, California, Texas and Mexico.
Kansas: Riley Co. (1).
Arizona: Ft. Huachuca IX-12 (7); Oricle VI-29 (10); Nogales VIII-18 (c).
Texas: Corpus Christi? (9); San Antonio (10); Wichita Falls (10); Uvalde VI (13).
Host: *Petalstesnon multiflorus.*

*OCULARIS Casey

1909 *Spinthoptera* Casey p. 73.
1910 Kerremans p. 125.
Type locality: Western Texas.
Distribution: Western Texas.

PARVA Casey, See WEBBI Leconte

VALENS Leconte, See WEBBI Leconte

394. WEBBI Leconte (9324a)

1852 *Dicerca woodhousii* Leconte p. 68.
1857 Leconte p. 12 pl. 2 fig. 6.
1857 Leconte p. 7.
1857 *woodhousii* Leconte p. 7.
1857 *D. woodhousii* Lacordaire p. 36.
1858 *Dicerca* Leconte p. 68.
1858 *D. woodhousii* Leconte p. 66.
1858 *D. valens* Lecote p. 66.
1859 Leconte p. 193.
1859 *woodhousii* Leconte p. 193.
1866 *Chalcolepidius webbi* Leconte p. 348.
1873 Crotch p. 84.
1882 Waterhouse p. 10.
1892 *webbi* Lec.=*drummondi* Gory, Kerremans p. 60.
1895 Townsend p. 43.
1898 Wickham p. 305.

*Probably synonymous with *drummondi* L.-G.

1898 Cockerell p. 151.
1903 Kerremans p. 94.
1903 *woodhousii* Kerremans p. 94.
1903 *valens* Kerremans p. 94.
1905 Schaeffer p. 147.
1909 *Spinthoptera valens* Casey p. 73.
1909 *S. arizonica* Casey p. 74.
1909 *S. parva* Casey p. 73.
1909 *S. woodhousii* Casey p. 74.
1909 *S. webbi* Lec., Casey p. 75.
1910 *webbi* Lec., Kerremans p. 132.
1910 *parva* Cas., *woodhousii* Lec., Kerremans p. 129.
1910 *valens Lec.*, Kerremans p. 128 pl. 27 fig. 4.
1910 *woodholsii* Lec., Kerremans p. 129.
1910 *arizonica* Casey, Kerremans p. 133.
1918 Burke p. 210.

Type locality: Ures, Sonora, Mexico.
Distribution: Kansas to Texas.
Kansas:
Nevada:: Alameda.
Arizona:: Sabino Canyon (23); Santa Rita Mts. (22).
New Mexico: Los Crucis VIII-19 (9).
Texas: Green Valley VIII (7); El Paso (1).
Host: Palo verde *(Ceridium torreyanum)*, mesquite *(Prosopis juliflora)*. Taken on *Salix longifolia*, eating leaves.
Season-July-August.

WOODHOUSII Leconte (9324b), See WEBBI Leconte

Genus *PTOSIMA* Sol.

1833 Solier p. 277 pl. X fig. 8.
Type of the genus **BUPRESTIS 9-MACULATA** Fabricii.

395. GIBBICOLLIS Say (9291)

1836 *Buprestis gibbicollis* Say p. 161.
1836 *Buprestis* Say p. 158.
1840 *Acmaeodera* Erichson p. 241.
1841 *luctuosa* Gory IV p. 71 pl. 13 fig. 69.
1859 Leconte p. 221.
1873 *luctuosa* Gory = *gibbicollis* Say, Crotch p. 89.
1883 Leconte p. 591.
1884 Lugger p. 203.
1892 Kerremans p. 163.
1895 Hamilton p. 364.
1899 Harris p. 411.
1902 *luctuosa* Gory=*gibbicollis* Say, Kerremans p. 39.
1902 Ulke p. 21, 47.
1903 Wickham p. 70.
1907 Kerremans p. 543.
1908 Heyne-Taschenberg p. 128.
1909 Blatchley p. 794.
1909 Smith J. B. p. 294.
1917aBurke plate V fig. 3.
1920 Knull p. 7.
1922 Knull p. 79.
1925 Good p. 272 fig. 34.

Type locality: Arkansas.

Distribution: Eastern and Middle Western States, Maryland, Washington, D. C. VI-2 (10); Alabama, Iowa, Kansas (17); Ohio, Indiana, Kentucky (1); Illinois, St. Louis, Missouri (10); Murprheesboro, Arkansas (9); Opelousas, Louisiana IV-24 (8).
Pennsylvania: Pittsburg V-29 (9); Hummelstown (3); Jannette VI (3).
Texas: Brewster Co. (10); Chisos Mts. VI-10 (10); Dallas (10).
Hosts: Redbud *(Cercis canadensis)*, Sassafras *(Sassafras sassafras)*, Black locust *(Gleditsia triacanthos)*.

395a. Variety *SCHAEFFERI, New Variety Chamberlin

Type locality: Cypress Mills, Texas. July 1.
Distribution: Southern Texas.
Host: Unknown.

LUCTUOSA Gory, See SIBBICOLLIS Say

396. IDOLYNAE Frost

1923 Frost p. 279.
Type locality: Agricultural College, Mississippi.
Host: Unknown.

396½. WALSHII Lec. (9292)

1863 Leconte p. 81.
1892 Kerremans p. 164.
1901 Fall p. 121.
1907 Kerremans p. 544.

Type locality: Rock Island, Illinois.
Distribution: Illinois, California and Texas.
Illinois: Rock Island (Leconte).
California: Los Angeles Co. (5); Texas (4).

**Ptosima gibbicollis* var. *schaefferi* new variety, Chamberlin. Form of *gibbicollis*, larger and with distinct orange markings in place of yellow; clypeus more deeply sinus; head and thorax more densely punctured, under parts decidedly more pubescent, hairs long, white and silky. Length 9.5 mm.

A form not uncommon in collections and which has been placed with *P. gibbicollis*. Easily separated from the latter by its larger size and orange markings. Named in honor of Mr. Chas. Schaeffer, who has made known to science so many rare forms from Southwestern Texas.

*Genus *RHAEBOSCELIS* Chev.

1837-8 Chevrolat p. 203.

Type of the genus **R. PURPUREUS** Chevrolat.

397. TENUIS Lec. (9561)

1863 Leconte p. 82.
1878 Schwarz p. 452.
1892 Kerremans p. 240.
1902 Ulke p. 22, 47.
1903 Kerremans p. 293.
1904 Schaeffer p. 211.
1909 Smith p. 295.
1919 Nicolay p. 20.
1922 Knull p. 86.
1925 Good p. 272 fig. 46.

Type locality: Maryland, Illinois?.
Distribution: New York to Florida, west to Illinois.
New York: Dyker Medow, L. I. (19); Bellport VI-27 (19).
Pennsylvania: Angora VI-15; Philadelphia VII; Lester VI-5.
New Jersey: Five Mile Beach VII-4 (8); Anglesea VII (4); Rutherford VII (4); Smoke Hill VI-13 (16).
Florida: Orlando (16).
Illinois: (Leconte).
Host: Swamp Rosemallow *(Hibiscus moscheutos)*.

398. TEXANA Schaeffer (9562)

1904 Schaeffer p. 211.
Type locality: Brownsville, Texas.
Distribution: Extreme Southern part of Texas.
Texas: Hidalyo Co. (8); Combes V-20 (10); Victoria VIII-7 (10); Brownsville VIII-4 (c).

Genus *SCHIZOPUS* Leconte

1858 Leconte p. 70.

Type of the genus **SCHIZOPUS LAETUS** Leconte.

399. LAETUS Lec. (9302)

1858 Leconte p. 70-71.
1859 Leconte p. 222 pl. 13 fig. 4.
1891 Horn p. 46.
1892 Kerremans p. 101.
1901 Fall p. 118.
1902 Kerremans p. 44.
1907 Kerremans p. 593.
1913 Woodworth p. 196.

Type locality: Florence, Arizona.

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*According to Dr. Jans Obenberger our American species do not belong to the genus *Rhaeboscelis* but to *Paragrilus*.

Distribution: Desert Regions of Arizona, California and Lower California.
Arizona: Florence (Lec.)
California: Palm Springs V-30 (c); Holotype No. 3498 "Calif." (17); Banning (15); San Diego, Inyo, ,Imperial Co. VI.
Lower California (9).
Host: Probably the larva mine the stems of some desert flower.

400. SALLEI Horn (9301)

1885 Horn p. 145 pl. 4 fig. 14.
1886 Henshaw p. 95.
1891 Horn p. 46.
1892 Kerremans p. 101.
1901 Fall p. 118.
1902 Kerremans p. 44.
1907 Kerremans p. 592.
1913 Woodworth p. 196.
1925 Good p. 272 fig. 48.

Type locality: Mariposa Co., California.
Distribution: Southern California.

Genus *TAPHROCERUS* Solier

1833 Solier p. 314.
Type of the genus **BRACHYS ALBOGUTTATUS** Man. (**T. GRACILLIS** Say).

401. AGRILOIDES Cr. (9579)

1873 Crotch p. 96.
1878 Schwarz p. 363, 452.
1880 Zesch-Reinecke p. VII.
1892 Kerremans p. 292.
1896 *texanus* Kerremans p. 312.
1896 *texanus* Kerr.=*agricolides* Cr., Horn p. 247.
1903 Kerremans p. 328.
1918 Dozier p. 331.
1919 Blatchley p. 30.
1920 Nicolay-Weiss p. 145.
1921 Nicolay p. 176.

Type locality: Belfrage, Texas (?).
Distribution: Along the Gulf Coast from Florida to Texas, north to Maryland and Arizona.
Florida: Jacksonville (4); Gainsville IV-3 (Dozier).
Alabama: Delchamps VIII-30 (15); Caden VIII-2 (9); Mobile IV-11.
Texas: Seabrook VII-2 (8); Columbus, Brownsville VIII-4 (I); Carmel Co. (I).
Louisiana: Covington VI-6 (9).
Georgia: Okfenokee Swamp VI-15 (4).
Maryland: Plummers Island VIII-2 (C).
Arizona: Huachuca Mts. VII-5 (I).
Host: Taken on *Juncus maritimus*.

ALBOGUTTATUS Mann., See GRACILIS Say

402. ALBONOTATUS Blat.

1919 Blatchley p. 29.
1920 Nicolay-Weiss p. 148.
1921 Nicolay p. 176.

Type locality: Southern Florida.
Distribution: Georgia and Florida.
Georgia: Billy's Island, Okefenokee Swamp VI (4).
Florida: Jacksonville (4); Lakeland, Ft. Myers, La Belle and Dunedin, Oct. 20 to April 10 (Blatchley).
Host: Taken on Huckleberry.

CYLINDRICOLLIS Kerr., See LAEVICOLLIS Leconte

403. GRACILLIS Say (9578)

1825 *Trachys* Say p. 253.
1836 *Aphanisticus* Say p. 165.
1836 Laporte-Gory p. 2.
1837 *alboguttatus* Mannerheim p. 120.
1837 Dejean p. 94.
1841 *alboguttatus* Mann., Laporte-Gory II p. 2 pl. 1 fig. 1.
1844 *alboguttatus* Mann., Melsheimer p. 148.
1857 *B. alboguttatus* Mann.=*T. gracilis* Say, Leconte p. 9.
1859 Leconte p. 251.
1870 Pettit p. 102.
1874 Henshaw p. 17.
1878 Schwarz p. 363, 452.
1878 Hubbard-Schwarz p. 656.
1883 Leconte p. 389, 599.
1889 Blanchard p. 32.
1892 Kerremans p. 292.
1895 Hamilton p. 364.
1901 Fall p. 121.
1902 Ulke p. 21, 47.
1903 Kerremans p. 327.
1907-Fall-Cockerell p. 181.
1909 Easton p. 50.
1909 Wickham p. 23.
1909 Blatchley p. 805.
1909 Smith p. 295.
1911 Gibson p. 12.
1912 Gibson p. 100.
1913 Manee p. 169.
1913 Woodworth p. 196.
1915 Johnson p. 312.
1917 Chagnon p. 219.
1919 Blatchley p. 30.
1919 Nicolay p. 20.
1920 Britton p. 245.
1920 Nicolay-Weiss p. 146-148.
1921 Nicolay p. 176.
1922 Knull p. 86.
1923 Chapman p. 1-13.
1925 Good p. 272 fig. 37, 44.

Type locality: Senipuxten Island, Indiana.
Distribution: Ontario, Canada, to Florida, west to Manitoba, New Mexico and California.
Canada:: Assinbue, Man. VIII-29 (9); Ontario.
Maine: Paris VII-15 (C).
Massachusetts: Southboro VI-29 (C).

New York: Stanton Island VI (4); Peekskill (4); Long Island VII, VIII (19).
New Jersey: Lakehurst (4); Red Bank VI-21 (8).
North Carolina: Black Mountains V (9).
Georgia: Clayton VIII (4).
Pennsylvania: Angora VI-15 (17).
Minnesota: Meridian VI-18 (9).
Illinois: (17).
Washington, D. C.:: (17).
Iowa: Ames (W); Iowa City (W); Burlington (W).
Missouri: St. Louis (4).
New Mexico: (Cockerell).
California: Los Angeles (17); Los Angeles Co. (Van Duzee).
Texas: Brownsville VIII-4 (16).
Hosts: Adults taken on leaves and flowers of button bush *(Cephalanthus occidentalis)*, oak brush and myrtle bush. Larvae mine only in leaves of the flood plain bulrush *(Scripus fluviatilis)*.

404. LAEVICOLLIS Lec. (9580)

1878 Leconte p. 403.
1878 Schwarz p. 336.
1892 Kerremans p. 292.
1896 *cylindricollis* Kerremans p. 312.
1896 *cylindricollis* Kerr=*laevicollis* Lec., Horn p. 247.
1920 Nicolay-Weiss p. 145.
1920 Nicolay-Weiss p. 243, 145-146.
1921 Nicolay p. 176.

Type locality:: Florida.
Distribution: Georgia, Alabama and Florida, Pennsylvania?.
Georgia: Tifton VIII-24 (10); Okefenokee Swamp VI-15 (4).
Alabama: Coden VI-9.
Florida: Haw Creek VI-10 (10); Green Cove Springs (4).
Hosts:: Unknown; adults taken sweeping.

405. PUNCTICOLLIS Sz. (9577)

1878 Schwarz p. 363, 452.
1892 Kerremans p. 292.
1903 Kerremans p. 328.
1909 Blatchley p. 30.
1920 Nicolay Weiss p. 143.
1920 Blatchley p. 46.
1921 Nicolay p. 175.

Type locality: Enterprise, Florida.
Distributon: Alabama and Florida.
Alabama: Coden VI-1 (1); Delchamps VI-10 (C).
Florida: Paradise Key, Feb., Cedar Key VI (10); Enterprise, Biscayne IV-29, V-28, IX-28 (8).
Host: Unknown.

406. SCHAEFFERI N.-W.

1920 Nicolay-Weiss p. 144 plate VI fig. B.
1921 Nicolay p. 175.

Type locality: Brownsville, Texas.
Distribution: Taken only by Mr. Chas. Schaeffer in the vicinity of Brownsville.
Host: Unknown.
Season: August.

*TEXANUS Kerr.

1896 Kerremans p. 312.
1920 Nicolay-Weiss p. 149.
1921 Nicolay p. 176.

Type locality: *Texas.

Genus *THRINCOPYGE* Lec.

1858 Leconte p. 17.

Type of the genus **BUPRESTIS AMBIENS** Leconte.

407. ALACRIS Leconte (9303)

1858 Leconte p. 17.
1859 Leconte p. 219 pl. 12 fig. 2.
1878 Glover plate 45 fig. 39.
1885 Horn p. 147.
1888 Waterhouse p. 19.
1891 Duges p. 15.
1892 Kerremans p. 163.
1892 Townsend p. 38.
1895 Townsend p. 43.
1898 Cockerell p. 151.
1900 Keremans p. 308.
1902 Kerremans p. 45.
1907 Fall-Cockerell p. 180.
1907 Keremans p. 598.
1920 Rohwer p. 412, 471.
1925 Good p. 272 figs. 32, 33.

Type locality: New Mexico.
Distribution: New Mexico, Arizona, Texas and Mexico.
New Mexico: Los Crucis (4); San Andres Mts.
Arizona: Tucson (9); Phoenix (4).
Texas: Almogordo IV; El Paso 3700 ft. VI (9).
Mexico: Guanajuato and Guadalajora.
Season: June, July.
Host: Bred from the stalks of Spanish Bayonet *(Dasylirion wheeleri)*.

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*The type of *T. texanus* is in the British Museum without label and it is doubtful if it belongs to our list.—(N.-W.).

408. AMBIENS Lec. (9304)

1854 *Buprestis ambiens* Leconte p. 83.
1859 Leconte p. 219.
1885 Horn p. 147.
1892 Kerremans p. 163.
1895 Townsend p. 43.
1898 Cockerell p. 151.
1898 Wickham p. 305.
1900 Kerremans p. 308.
1902 Kerremans p. 45.
1907 Fall-Cockerell p. 180.
1907 Kerremans p. 599.
1917bBurke p. 329.
1917aBurke pl. IV fig. 3.

Type locality: Frontera (Rio Grande), Texas.
Distribution: Arizona, New Mexico and Texas.
Arizona: Prescott (c); Tucson (4); Nogeles VIII-10 (9); Oracle VI-3, VII-1 (10); St. Catalina Mts. (10); Benson (13); Santa Rita Mts. (W).
Host:: Spanish bayonet *(Dasylerion wheeleri)*, Yucca *(Lilioceae sp.)*.

409. LAETIFICA Horn (9305)

1885 Horn p. 146.
1886 Henshaw p. 95.
1892 Kerremans p. 163.
1898 Cockerell p. 151.
1900 Kerremans p. 309.
1902 Kerremans p. 45.
1907 Kerremans p. 602.

Type locality: Texas.
Distribution: California, New Mexico, Arizona and Texas.
Arizona: Prescott (c).
Texas: Lectotype (male) (17); Paratype (male) (17).
Host: Unknown.

Genus *TRACHYKELE* Mars.

1865 Marseul p. 149.
Type of the genus **TRACHYKELE BLONDELI** Mars.

410. BLONDELI Mars. (9330)

1865 Marseul p. 150.
1869 Gemminger & Harold p. 1385.
1871 Saunders p. 21.
1882 Waterhouse III p. 7 pl. 1 fig. 8.
1873 Crotch p. 87.
1892 *blondeli* Mars.=*lecontei* Gory, Keremans p. 54.
1903 *blondeli* Mars.=*lecontei* Gory-Kerremans p. 130.
1906 Fall p. 160-165.
1907 Fall-Cockerell p. 179.
1909 Burke p. 409 fig. 32.
1909 Casey p. 178.
1914 Gibson p. 116.
1917bBurke p. 326.
1920 Burke p. 73 and p. 169.
1920 Herbrt p. 8.
1924 Chamberlin p. 285.
1924 Burke p. 21, 24.

Type locality: (Exact type locality is not known), Marseul gives no locality. (See Ent. News Vol. 17, p. 161.)
Distribution: British Columbia, Washington, Oregon, California and New Mexico.
Washington: Hoquiam VI-2; Seattle (15).
Oregon: Dilly (4).
California: Palo Alto (10); Pyramid Ranger Station (10; Placerville (10); Strawberry (15); Camino (15); San Geronimo (23).
New Mexico: Santa Fe (13).
Hosts: Western red cedar *(Thaja plicata)*, Monterey cypress *(Cupressus macrocarpa)*, McNab Cypress *(C. macnabiana)*, Western juniper *(Juniper occidentalis)*, Sargent cypress *(C. sargentii)*.
Season: April-August.

411. HARTMANI Burke

1920 Burke p. 169-170.
1921 Nicolay p. 174.
1924 Burke p. 24.

Type locality: Mt. St. Helens, Lake Co., California.
Host: *Cupressus sargentii* (23).

412. LECONTEI Gory (9332)

1837 Dejean p. 87 (no description).
1841 *Buprestis lecontei* Gory p. 107 pl. 18 fig. 104.
1859 Leconte p. 203.
1871 Saunders p. 21.
1873 Crotch p. 87.
1879 Leconte p. 504 (probably *T. nimbosa)*.
1892 Kerremans p. 54.
1906 Fall p. 160-165.
1909 Burke p. 408 fig. 30.
1913 Gibson p. 11.
1917aBurke pl. IV fig. 2.
1917bBurke p. 327.
1920 Burke p. 73.
1924 Burke p. 22, 23.
1925 Champlain & Knull p. 113.
1925 Chapin p. 33.

Type locality: (Louisiana) "Bor. Amer."
Distribution: Virginia, North Carolina, South Carolina, Georgia and Louisiana; Mississippi (C).
Virginia: Cape Henry (10).
Louisiana: La Fourche XII (10); Magnolia, Mar. 25 (c).
South Carolina: Ferguson (10).
Host: Bald cypress *(Taxodium distichum)*.
Season: March-July.

413. NIMBOSA Fall (9331)

1906 Fall p. 164.
1917 Chamberlin p. 131.
1917aBurke pl. VIII fig. 2.
1917bBurke p. 326.
1920 Burke p. 74.
1924 Burke p. 23, 24.
1924 Chamberlin p. 185.

Type locality: Marble Bridge, Tulare Co., California.

Distribution: British Columbia, Washington, Oregon, Colorado, California and Texas.

Oregon: Corvallis (C); Yamhill VII-14 (C); Ashland VII -8, IX-1 (Miller); Forest Grove (10).

Colorado: Leconte reports *T. lecontei* from Garland, probably *T. nimbosa*.

California: Marble Bridge 5200 ft. (5); Carrville VII-4 (15); Vade (10); Glen Alpine 7000 ft. VII (13); Talloc (13); Phillips Station, El Dorado Co. (15); Round Meddow, Giant Forest (Hopping).

Hosts: Grand fir *(Abies grandis)*, white fir *(A. concolor)*, magnificent fir *(A. magnifica)*, Alpine hemlock *(Tsugae mertensiana)*.

Season: June-July.

414. OPULENTA Fall (9329)

1906 Fall p. 162.
1908 Wright-Coolidge p. 67.
1909 Burke p. 408 fig. 31.
1909 Casey p. 178.
1917 Chamberlin p. 130.
1917 Chrystal p. 946-949.
1917b Burke p. 326.
1920 Burke p. 74.
1922 Wallace p. 3.
1923 Van Duzee p. 269.
1923 Van Duzee p. 21.
1923 Van Duzee p. 44.
1924 Burke p. 22-23.
1924 Chamberlin p. 185.
1925 Good p. 272 fig. 11.

Type locality: Tulare Co., California.

Distribution: British Columbia to California.

Washington: Near Seattle.

Oregon: Corvallis V-4 (c); Detroit IX (c).

California: Shasta Co. (15); Tuolumne Co. (15); Three Rivers (5); Lake Tahoe (15); Marin Co. (15); Towels, Placer Co., Sequoia Nat. Park (10); Pyramid R. S. (10); Mariposa Big Tree Grove VII-7 (10); Fresno (16).

British Columbia: Vancouver Island (16); Slave Lake, North Vancouver, How Sound, Sechelt Inlet, Nelson Island, Powell Lake, Malaspina Inlet, Lund Lake, Harrison Lake (Chrystal), Lillouet V-22 (Anderson).

Hosts: Incense cedar *(Libocedrus decurrens)*, Red wood *(Sequoia sempervirens)*, Big tree *(S. washingtonia)*, Western juniper *(Juniperus occidentalis)*, Western red cedar *(Thuja plicata)*, Seargents cypress *(Capressus sargentii)?*

Season: April, May and June.

Genus *TRIGONOGYA* Schaeffer

1918 Schaeffer p. 213.

Type of the genus **MASTOGENIUS RETICULATICOLLIS** Sch.

415. RETICULATICOLLIS Schaef. (9585)

1904 *Mastogenius reticulaticollis* Schaeffer p. 210.
1905 *Mastogenius* Schaeffer p. 149.
1906 *Mastogenius* Fall p. 167.
1918 *Mastogenius* Schaeffer p. 239.
1918 Schaeffer p. 213.

Type locality: Brownsville, Texas.
Distribution: Taken only in the vicinity of Brownsville, Texas. Probably extends into Mexico.
Host: Unknown.

Genus *XENORHIPIS* Leconte

1866 Leconte p. 384.

Type of the genus **XENORHIPIS BRENDELI** Leconte.

416. BRENDELI Lec. (9379)

1866 Leconte p. 384.
1871 Saunders p. 56.
1873 Crotch p. 88.
1882 Horn p. 111.
1884 Horn p. 147.
1889 Blanchard p. 31.
1892 Kerremans p. 129.
1896 Reinick p. 284.
1903 Kerremans p. 162 pl. II fig. 4.
1906 Wenzel p. 38.
1909 Smith p. 293.
1909 Blatchley p. 787.
1916 Morris p. 19.
1922 Knull p. 82.
1925 Good p. 272 fig. 50.
1925 Champlain & Knull p. 113.

Type locality: Peoria, Ilinois.
Distribution: New York to Texas.
New York: Brooklyn.
Pennsylvania: Pittsburg VII-2 (3); Crafton (3).
Ilinois: Peoria (Lec.).
Georgia: Tybee Island VI-27 (c).
Ohio: Columbus VII-29 (Cham. & Knull).
Iowa:: Iowa City (W).
Massachusetts.
Texas: Victoria V-II (10).
Hosts: Bred from hickory *(Hickoria sp.)*, and beaten from live oak in Georgia; from honey locust in Ohio.

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*Synonymn are in italics.